SAMSUNG

TFT-LCD MONITOR

Chassis	Model
GS17VS	710V
GS17VT	73V
GS19VS	910V
GS19VT	93V
GS15MS	510M
GS17MS	710M
GS19MS	910M

SERVICE Manual

TFT-LCD MONITOR

GS15MS/GS17MS/GS19MS

GS19VT

GS17VS/GS19VS

GS17VT

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1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC power jack before servicing.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):

   WARNING:

   Do not use an isolation transformer during this test.

   Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

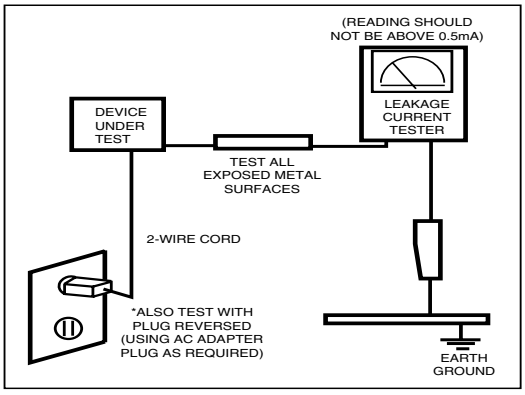


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: **An electrolytic capacitor installed with the wrong polarity might explode.**

Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

2 Product Specifications

2-1 GS17VS/GS17VT Specifications

Item	Description	
	GS17VS	GS17VT
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 17-Inch viewable, 0.264 (H) x 0.264 (V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz	
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1280 Pixels Vertical : 1024 Pixels	
Input Video Signal	Analog, 0.714 Vp-p ± 5% positive at 75 Ω, internally terminated	
Input Sync Signal	Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ –0.25 V)	
Maximum Pixel Clock rate	135 MHz	
Active Display Horizontal/Vertical	338 ± 3 mm / 270 ± 3 mm	
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz	
Power Consumption	34W (normal)	
Dimensions Set (W x D x H) Package	15.0 x 2.4 x 12.6 Inches (382.0 x 62.0 x 319.0 mm) State of stand disassembled 15.0 x 4.4 x 15.1 Inches (382.0 x 175.0 x 383.7 mm) State of stand installed 18.2 x 17.8 x 5.6 Inches (463 x 452 x 141 mm)	15.0 x 2.4 x 12.7Inches (380.0 x 60.0 x 322.0 mm) State of stand disassembled 15.0 x 6.9 x 15.1 Inches (380.0 x 175.0 x 383.5 mm) State of stand installed 18.2 x 5.6 x 17.8 Inches (463 x 141 x 452 mm)
Weight (Set/Package)	4.55 kg (10.0 lbs) / 5.65 kg (12.5 lbs)	4.55 kg (10.0 lbs) / 5.65 kg (12.5 lbs)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
• Designs and specifications are subject to change without prior notice.		

2-2 GS15MS/GS17MS Specifications

Item	Description	
	GS15MS	GS17MS
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 15-Inch viewable, 0.297 (H) x 0.297 (V) mm pixel pitch	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 17-Inch viewable, 0.264 (H) x 0.264 (V) mm pixel pitch
Scanning Frequency	Horizontal : 31 kHz ~ 60 kHz (Automatic) Vertical : 50 Hz ~ 75 Hz	Horizontal : 30 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1024 Pixels Vertical : 768 Pixels	Horizontal : 1280 Pixels Vertical : 1024 Pixels
Input Video Signal	Analog, 0.714 Vp-p ± 5% positive at 75 Ω, internally terminated	
Input Sync Signal	Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ –0.25 V)	
Maximum Pixel Clock rate	8 MHz	135 MHz
Active Display Horizontal/Vertical	304.1 mm / 228.1 mm	338 ± 3 mm / 270 ± 3 mm
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 12V / 3A	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz
Power Consumption	25W (normal)	40 W (normal)
Dimensions Set (W x D x H) Package	14.0 x 2.2 x 12.0 Inches (353.9 x 57.0 x 304.7 mm) State of stand disassembled 14.0 x 6.9 x 13.6 Inches (353.9 x 175.0 x 344.7 mm) State of stand installed 17.0 x 16.3 x 4.9 Inches (433 x 413 x 125 mm)	15.0 x 2.4 x 13.5 Inches (381.9 x 62.0 x 342.9 mm) State of stand disassembled 15.0 x 6.9 x 15.1 Inches (381.9 x 175.0 x 383.9 mm) State of stand installed 18.2 x 17.8 x 5.6 Inches (463 x 452 x 141 mm)
Weight (Set/Package)	3.0 kg (6.6 lbs) / 3.8 kg (8.4 lbs)	4.5 kg (9.9 lbs) / 5.6 kg (12.3 lbs)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
• Designs and specifications are subject to change without prior notice.		

2-3 GS19VS/GS19VT Specifications

Item	Description	
	GS19VS	GS19VT
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 19-Inch viewable, 0.298 (H) x 0.298(V) mm pixel pitch	
Scanning Frequency	Horizontal : 31 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 85 Hz	
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1280 Pixels Vertical : 1024 Pixels	
Input Video Signal	Analog, 0.714 Vp-p ± 5% positive at 75 Ω, internally terminated	
Input Sync Signal	Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ –0.25 V)	
Maximum Pixel Clock rate	135 MHz	
Active Display Horizontal/Vertical	376.32 ± 3 mm / 301.056 ± 3 mm	
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz	
Power Consumption	38W (normal)	
Dimensions Set (W x D x H) Package	16.9 x 2.4 x 14.0 Inches (428.0 x 61.8 x 356.0 mm) State of stand disassembled 16.9 x 7.7 x 16.9 Inches (428.0 x 195.7 x 430.0 mm) State of stand installed 20.9 x 19.4 x 5.9 Inches (531 x 494 x 150 mm)	16.9 x 2.4 x 14.0 Inches (428.0 x 61.8 x 356.0 mm) State of stand disassembled 16.9 x 8.0 x 17.0 Inches (428.0 x 204.0 x 433.0 mm) State of stand installed 20.8 x 20.1 x 9.0 Inches (529 x 510 x 229 mm)
Weight (Set/Package)	5.55 kg (12.2 lbs) / 6.95 kg (15.3 lbs)	6.4 kg (14.1 lbs) / 8.2 kg (18.1 lbs)
Environmental Considerations	Operating Temperature : 50°F ~ 95°F (10°C ~ 35°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity : 5 % ~ 95 %	
• Designs and specifications are subject to change without prior notice.		

2-4 GS19MS Specifications

Item	Description
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 19-Inch viewable, 0.298 (H) x 0.298(V) mm pixel pitch
Scanning Frequency	Horizontal : 31 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 85 Hz
Display Colors	16.2 Million colors
Maximum Resolution	Horizontal : 1280 Pixels Vertical : 1024 Pixels
Input Video Signal	Analog, 0.714 Vp-p ± 5% positive at 75 Ω, internally terminated
Input Sync Signal	Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ –0.25 V)
Maximum Pixel Clock rate	135 MHz
Active Display Horizontal/Vertical	376.32 ± 3 mm / 301.056 ± 3 mm
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz
Power Consumption	42 W (normal)
Dimensions Set (W x D x H) Package	 16.9 x 2.4 x 15.0 Inches (428.0 x 61.8 x 380.5 mm) State of stand disassembled 16.9 x 7.7 x 16.9 Inches (428.0 x 195.7 x 430.0 mm) State of stand installed 20.9 x 19.4 x 5.9 Inches (531 x 494 x 150 mm)
Weight (Set/Package)	5.75 kg (12.7 lbs) / 7.55 kg (16.6 lbs)
Environmental Considerations	Operating Temperature : 50°F ~ 95°F (10°C ~ 35°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity : 5 % ~ 95 %
• Designs and specifications are subject to change without prior notice.	

2-5 Pin Assignments

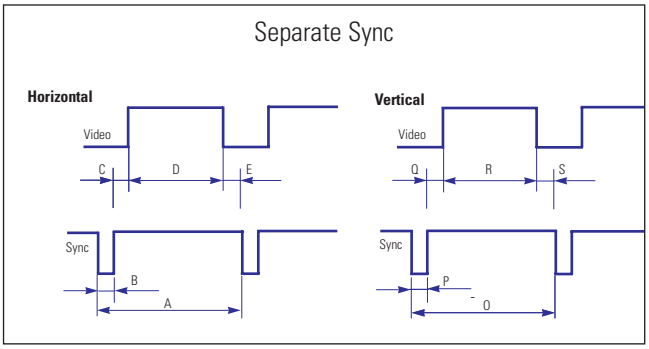
Sync Type / Pin No.	15-Pin D-Sub Signal Cable Connector		
	Separate	**Composite**	**Sync-on-green**
1	Red	Red	Red
2	Green	Green	Green + H/V Sync.
3	Blue	Blue	Blue
4	GND	GND	GND
5	DDC Return (GND)	DDC Return (GND)	DDC Return (GND)
6	GND-R	GND-R	GND-R
7	GND-G	GND-G	GND-G
8	GND-B	GND-B	GND-B
9	DDC Power Input (+5V)	DDC Power Input (+5V)	DDC Power Input (+5V)
10	Self Raster	Self Raster	Self Raster
11	GND	GND	GND
12	Bi-Dr Data (SDA)	Bi-Dr Data (SDA)	Bi-Dr Data (SDA)
13	H-Sync.	H/V-Sync.	Not Used
14	V-Sync.	Not Used	Not Used
15	DDC Clock (SCL)	DDC Clock (SCL)	DDC Clock (SCL)

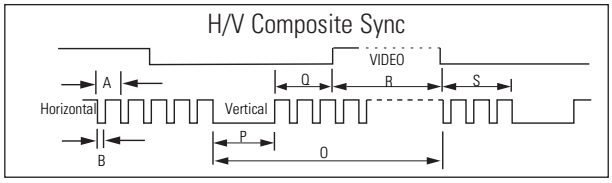
2-6 Timing Chart

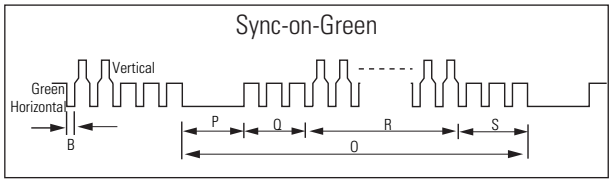
This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1 Timing Chart

Mode / Timing	IBM		VESA (GS17VS/GS19VS/GS17VT/GS19VT/GS15MS/GS17MS/GS19MS)					VESA(GS17VS/GS19VS/GS17VT /GS19VT/GS17MS/GS19MS)	
	VGA2/ 70 Hz 720 x 400	VGA3/ 60 Hz 640 x 480	640/75 Hz 640 x 480	800/60 Hz 800 x 600	800/75 Hz 800 x 600	1024/60 Hz 1024 x 768	1024/75 Hz 1024 x 768	1280/60 Hz 1280 x 1024	1280/75 Hz 1280 x 1024
fH (kHz)	31.469	31.469	37.500	37.879	46.875	48.363	60.023	63.981	79.975
A µsec	31.777	31.778	26.667	26.400	21.333	20.677	16.660	11.852	12.504
B µsec	3.813	3.813	2.032	3.200	1.616	2.092	1.219	1.037	1.067
C µsec	1.589	1.589	3.810	2.200	3.232	2.462	2.235	2.296	1.837
D µsec	26.058	26.058	20.317	20.000	16.162	15.754	13.003	9.259	9.481
E µsec	0.318	0.318	0.508	0.000	0.323	0.369	0.203	0.000	0.119
fV (Hz)	70.087	59.940	75.000	60.317	75.000	60.004	75.029	60.020	75.025
O msec	14.268	16.683	13.333	16.579	13.333	16.666	13.328	16.005	13.329
P msec	0.064	0.064	0.080	0.106	0.064	0.124	0.050	0.047	0.038
Q msec	0.858	0.794	0.427	0.607	0.448	0.600	0.466	0.594	0.475
R msec	13.155	15.761	12.800	15.840	12.800	15.880	12.795	15.630	12.804
S msec	0.191	0.064	0.027	0.0261	0.021	0.062	0.017	0.016	0.013
Clock Freq. (MHz)	28.322	26.175	31.500	40.000	49.500	75.000	78.750	108.000	135.000
Polarity H.Sync	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive
V.Sync	Positive	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate







A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the GS17VS/GS17VT/GS19VS/GS19VT/GS15MS/GS17MS/GS19MS TFT-LCD monitors.

WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

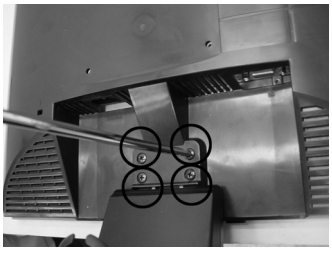
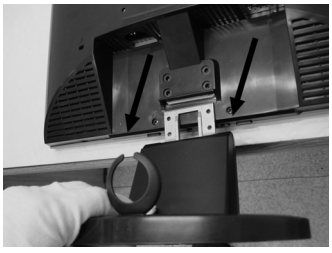
3-1 Disassembly

Cautions: 1. Disconnect the monitor from the power source before disassembly.

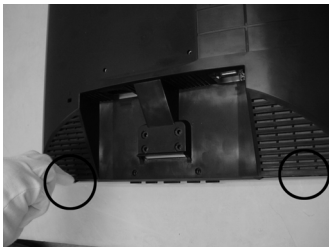
2. Follow these directions carefully; never use any metal instrument except provided jig to separate the cabinet.

3. R/Cover opening jig : BH81-00001A

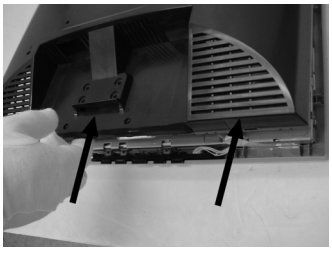
3-1 GS17VS/GS17VT/GS19VS/GS19VT

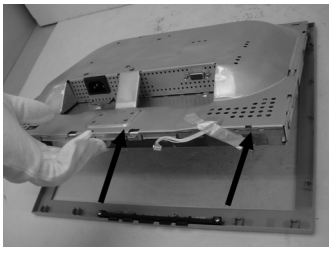
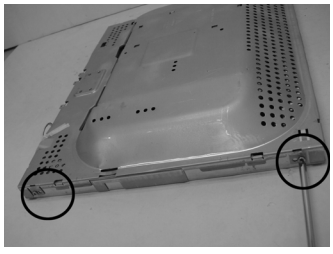
1. Place monitor face down on cushioned table. Remove 4 screws from grip on the stand and remove the stand.



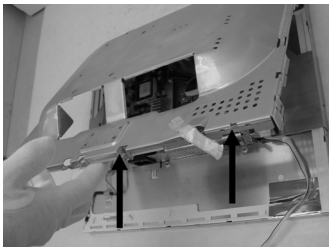
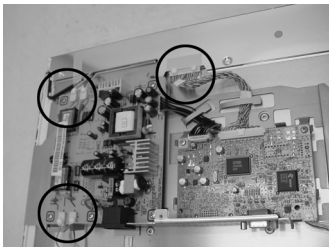
2. Remove 2 screws from the rear cover and insert the opening jig into the grooves at each side and press until it clicks.



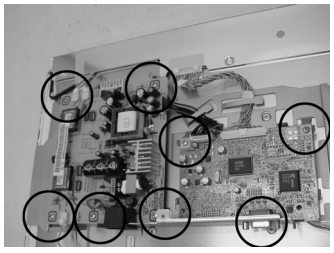
3. Lift the rear cover and remove 1 screws from the shield.

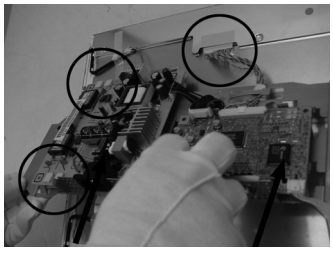



4. Lift up the panel shield and remove 4 screws from the panel shield. (Right / Left)

5. Lift up the panel shield and carefully remove the silicon glue on the cables with a Nipper.
⚠ Caution : Lamp wire may be easily damaged. Please use caution when removing the silicon.

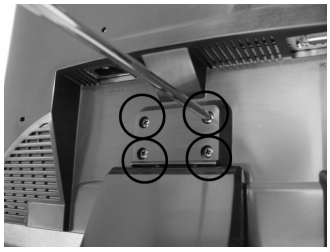


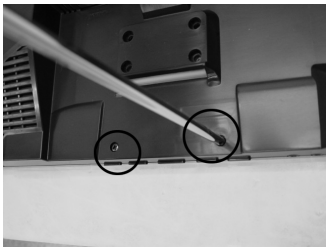


6. Remove 7 screws, 2 hexa screws from the boards and lift up the boards.
   ⚠ **Caution : When repairing panel only, disconnect just LVDS cable, Panel-Lamp / Wire marked in circle in the picture without removing the screws on board in order to lift the board up.**

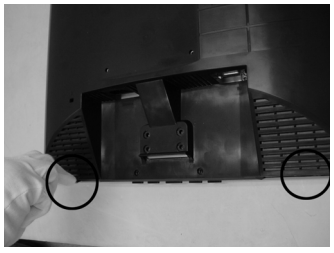
7. This picture is panel.

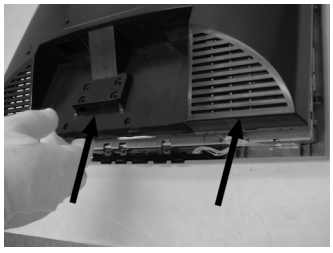
3-2 GS15MS/GS17MS/GS19MS



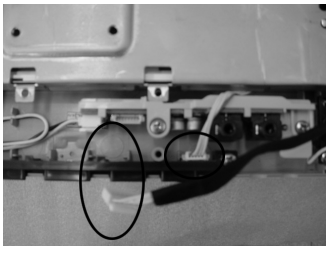


1. Place monitor face down on cushioned table. Remove 4 screws from grip on the stand and remove the stand. Remove 2 screws from the rear cover.

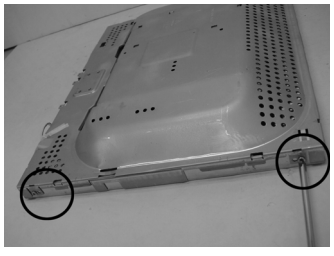




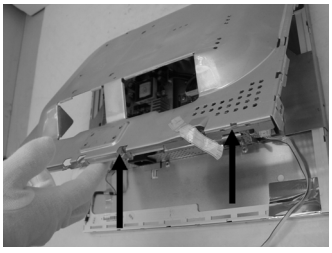
2. Insert the opening jig into the grooves at a hole and press until it clicks and lift up the rear cover.

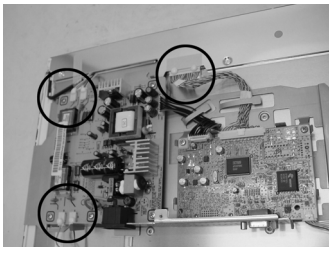


3. Remove 3 screws from the shield and disconnect function cable, speaker cable from the shield.

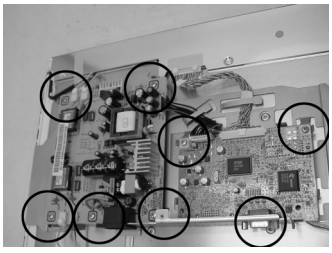


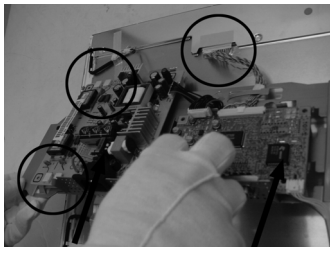
4. Lift up the panel shield and remove 4 screws from the panel shield. (Right / Left)





5. Lift up the panel shield and carefully remove the silicon glue on the cables with a Nipper.
   ⚠ **Caution : Lamp wire may be easily damaged. Please use caution when removing the silicon.**





6. Remove 7 screws, 2 hexa screws from the boards and lift up the boards.
   ⚠ **Caution : When repairing panel only, disconnect just LVDS cable, Panel-Lamp / Wire marked in circle in the picture without removing the screws on board in order to lift the board up.**

7. This picture is panel.

3-3 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

Memo

4 Alignments and Adjustments

This section of the service manual explains how to use the RS232 JIG.
This function is needed for AD board change and program memory (IC110) change.

4-1 Required Equipment

The following equipment is necessary for adjusting the monitor:

- Computer with Windows 95, Windows 98, or Windows NT.
- MTI-2031 DDC MANAGER JIG

4-2 Automatic Color Adjustment

To input video, use 16 gray or any pattern using black and white.

1. Select english for OSD language.
2. Press the "⏎(Enter/Auto key)" key for 5 seconds.

4-3 DDC EDID Data Input

1. Input DDC EDID data when replacing AD PCB.
2. Receive/Download the proper DDC file for the model from HQ quality control department. Install the below jig (Figure 1) and enter the data.

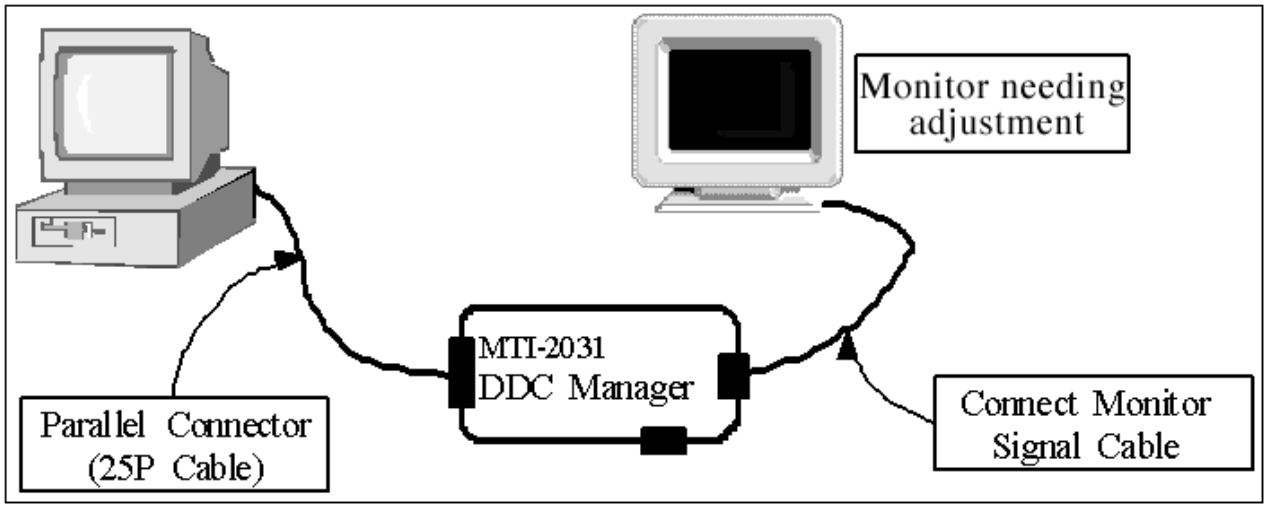


Figure 1.

4-4 OSD Adjustment When Replacing Panel

1. Adjust brightness and contrast to 0. Then, press the (⏎Enter/Auto key) for 5 second. Service function OSD will appear on screen.
2. Press the + key to place the cursor on the panel. Press the menu key for 5 seconds.

4-5 OSD Adjustment When Replacing Lamp Only

1. Adjust brightness and contrast to 0. Then, press the (Enter/Auto key) for 5 seconds. Service function OSD will appear on the screen.
2. Press the + key. Select upper lamp and press the menu key for 5 seconds. Then, select lower lamp and press the menu key for 5 seconds.

✳ ***Note :*** *Please be sure to read the following instructions for details on service function.*

4-6 Service Function Spec.

4-6-1 How to Display Service Function OSD

1. The value for brightness and contrast should be changed to zero.
2. Within 5 seconds, press the (↵ Enter/Auto) key.
3. Service function OSD will be displayed.

* If you want to disable the service function OSD, you will have to power off.

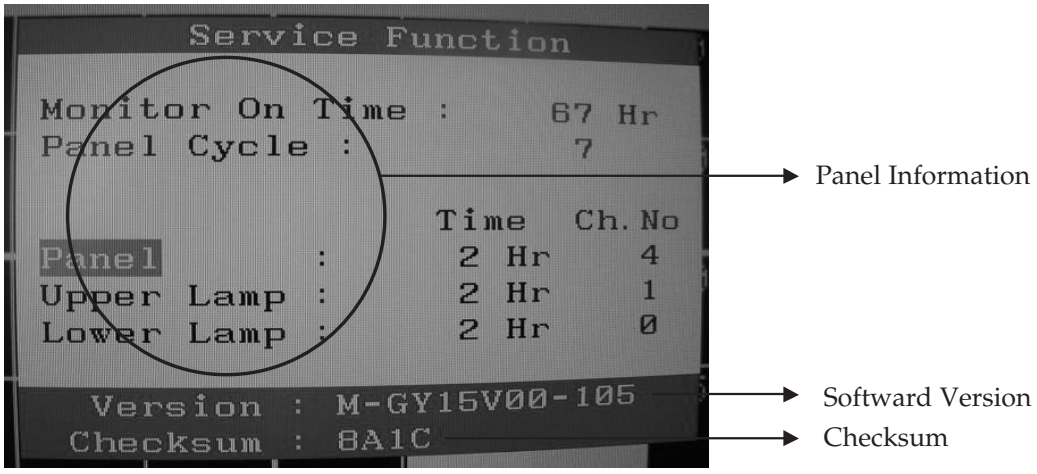


Figure 2. The example of service function OSD

The service function OSD is based on a grid of 29 rows x 12 columns.
The service function OSD consists of panel information, software version and MICOM checksum.

4-6-2 How to Control Service Function OSD

1. With the panel selected on OSD, whenever you press the right key, the base color will change to blue from “Panel” to “Upper Lamp”, “Lower Lamp”.

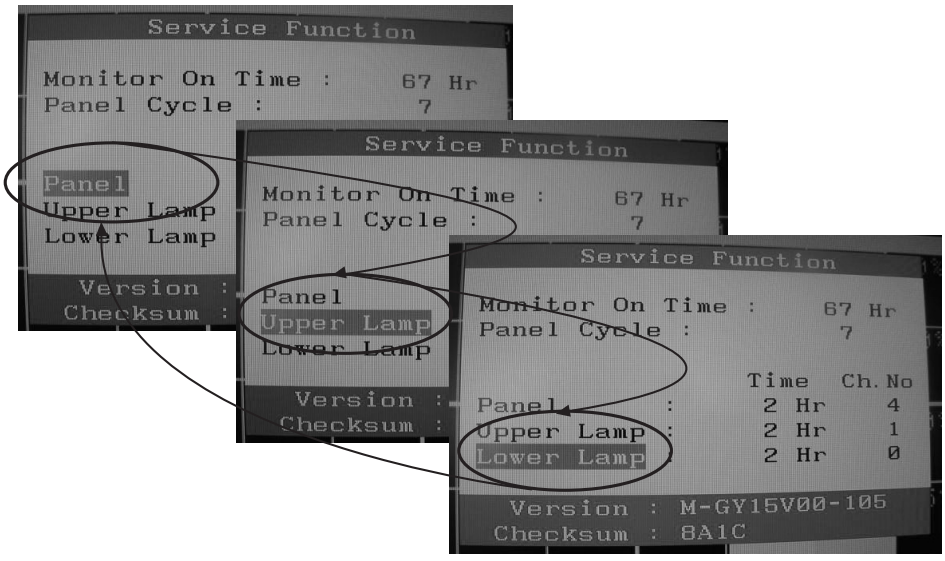


Figure 3.

4-6-3 How to Control Service Function OSD

•After change the panel or lamp, you must reset service function OSD.

•The case of panel change

After changeing the panel, press the menu key within 5 seconds,.
Then, panel Ch. No increases one step and the panel time information is reset to zero.
Simultaneously, other information is reset to zero (Upper/Lower lamp, Panel cycle).

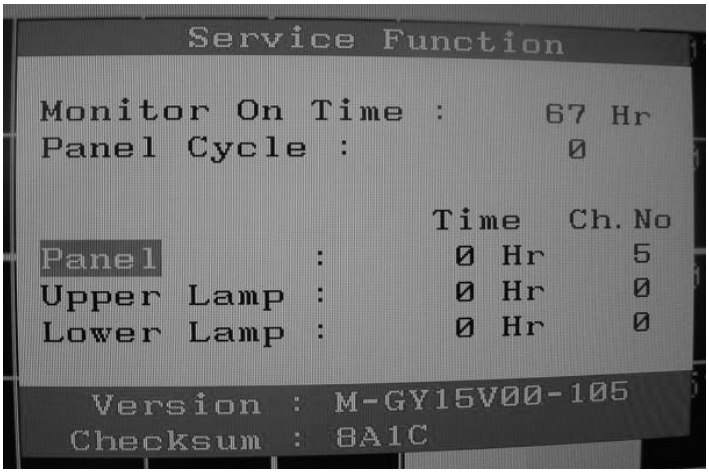

Service Function
Monitor On Time : 67 Hr
Panel Cycle : 0
Time Ch. No
Panel : 0 Hr 5
Upper Lamp : 0 Hr 0
Lower Lamp : 0 Hr 0
Version : M-GY15V00-105
Checksum : 8A1C

Figure 4.

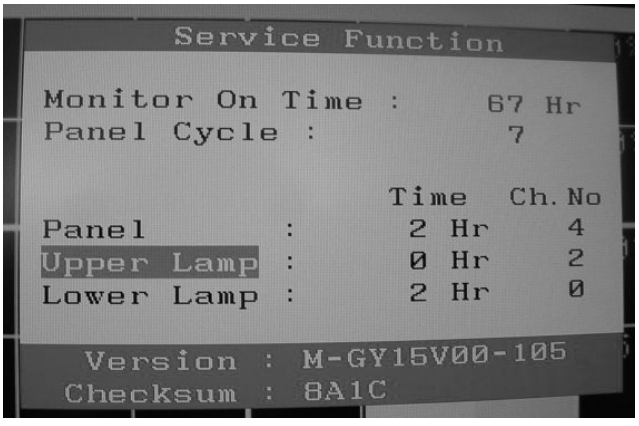
4-6-4 How to Control Service Function OSD

•In the case of Upper Lamp or Lower Lamp change

After changeing the Upper Lamp or Lower Lamp,

1. Select the Upper Lamp or Lower Lamp
2. Press the Menu key within an 5 seconds.

Then, Ch. No and time will be reset to zero (selected item only).


Service Function
Monitor On Time : 67 Hr
Panel Cycle : 7
Time Ch. No
Panel : 2 Hr 4
Upper Lamp : 0 Hr 2
Lower Lamp : 2 Hr 0
Version : M-GY15V00-105
Checksum : 8A1C

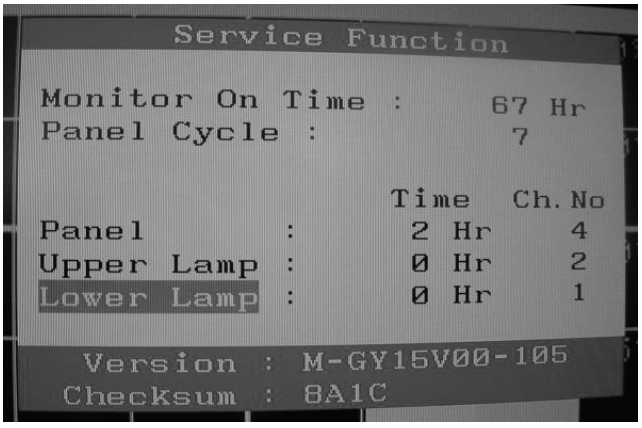

Service Function
Monitor On Time : 67 Hr
Panel Cycle : 7
Time Ch. No
Panel : 2 Hr 4
Upper Lamp : 0 Hr 2
Lower Lamp : 0 Hr 1
Version : M-GY15V00-105
Checksum : 8A1C

Figure 5, 6.

Memo

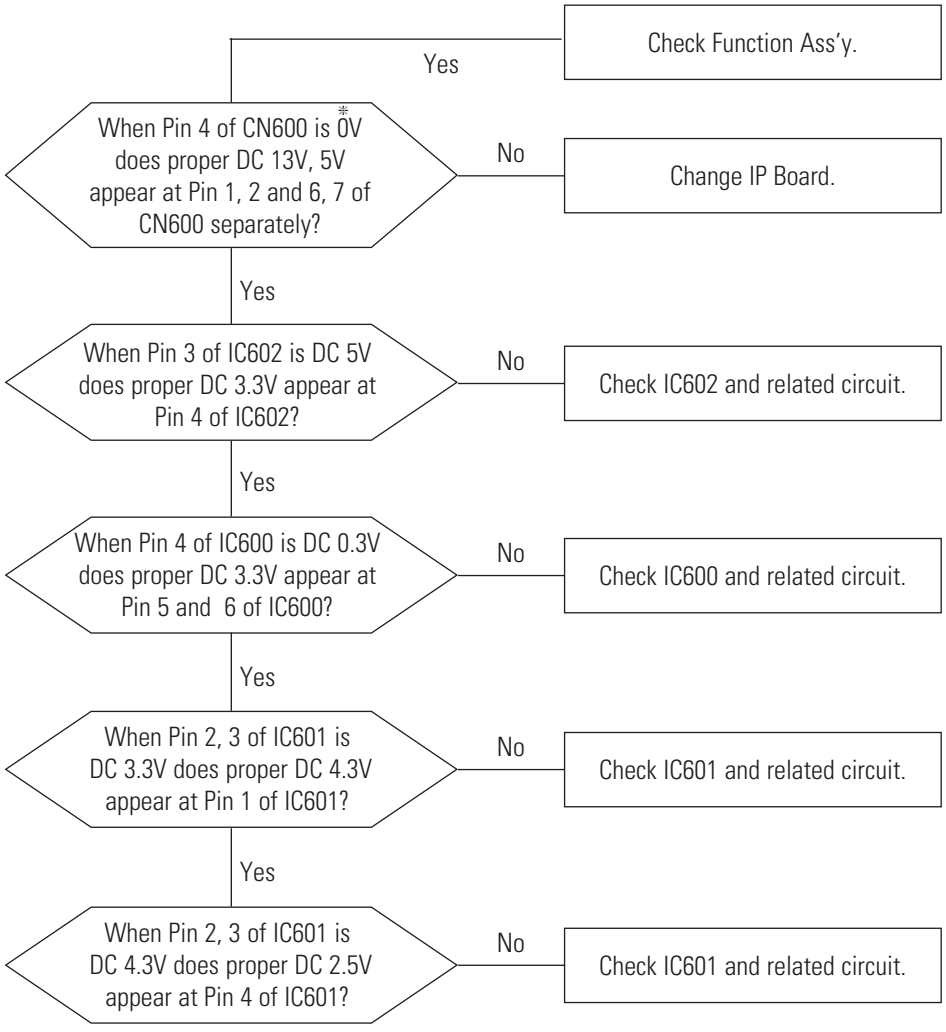
5 Troubleshooting

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1280 x 768
- H-frequency: 61 kHz
- V-frequency: 75 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Function PBA, Main PBA, I/D PBA
- 5V develop but no screen: Main PBA
- 5V does not develop: I/D PBA

4. If you push and hold the "↵(Enter/Auto)" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-1 No Power (GS15M*)


When Pin 4 of CN600 is 0V* does proper DC 13V, 5V appear at Pin 1, 2 and 6, 7 of CN600 separately?
Yes
Check Function Ass'y.
No
Change IP Board.
When Pin 3 of IC602 is DC 5V does proper DC 3.3V appear at Pin 4 of IC602?
Yes
No
Check IC602 and related circuit.
When Pin 4 of IC600 is DC 0.3V does proper DC 3.3V appear at Pin 5 and 6 of IC600?
Yes
No
Check IC600 and related circuit.
When Pin 2, 3 of IC601 is DC 3.3V does proper DC 4.3V appear at Pin 1 of IC601?
Yes
No
Check IC601 and related circuit.
When Pin 2, 3 of IC601 is DC 4.3V does proper DC 2.5V appear at Pin 4 of IC601?
Yes
No
Check IC601 and related circuit.

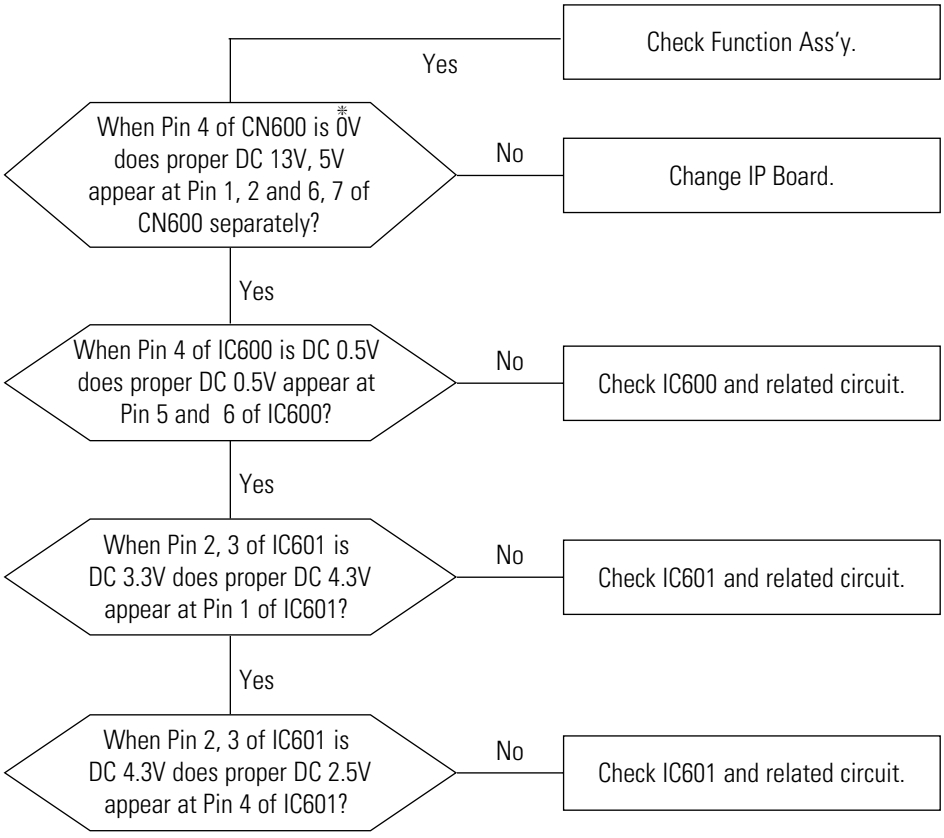
* 0V means power on state.
When the monitor work well except DPMS and power switch off, 0V should be applied to number 4 of CN600.

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1280 x 1024
- H-frequency: 64 kHz
- V-frequency: 60 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Function PBA, Main PBA, I/P PBA
- 5V develop but no screen: Main PBA
- 5V does not develop: I/P PBA

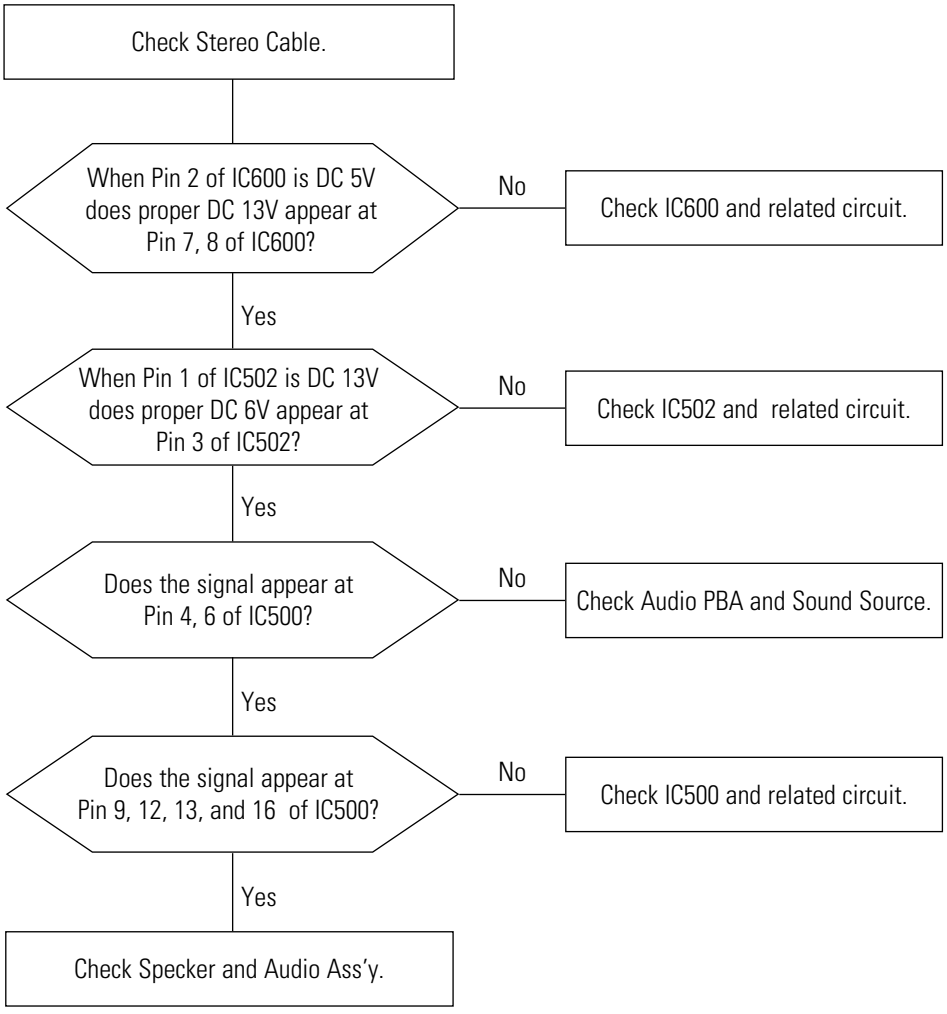
4. If you push and hold the "↵(Enter/Auto)" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-2 No Power (GS17V*/GS19V*/GS17M*/GS19M*)

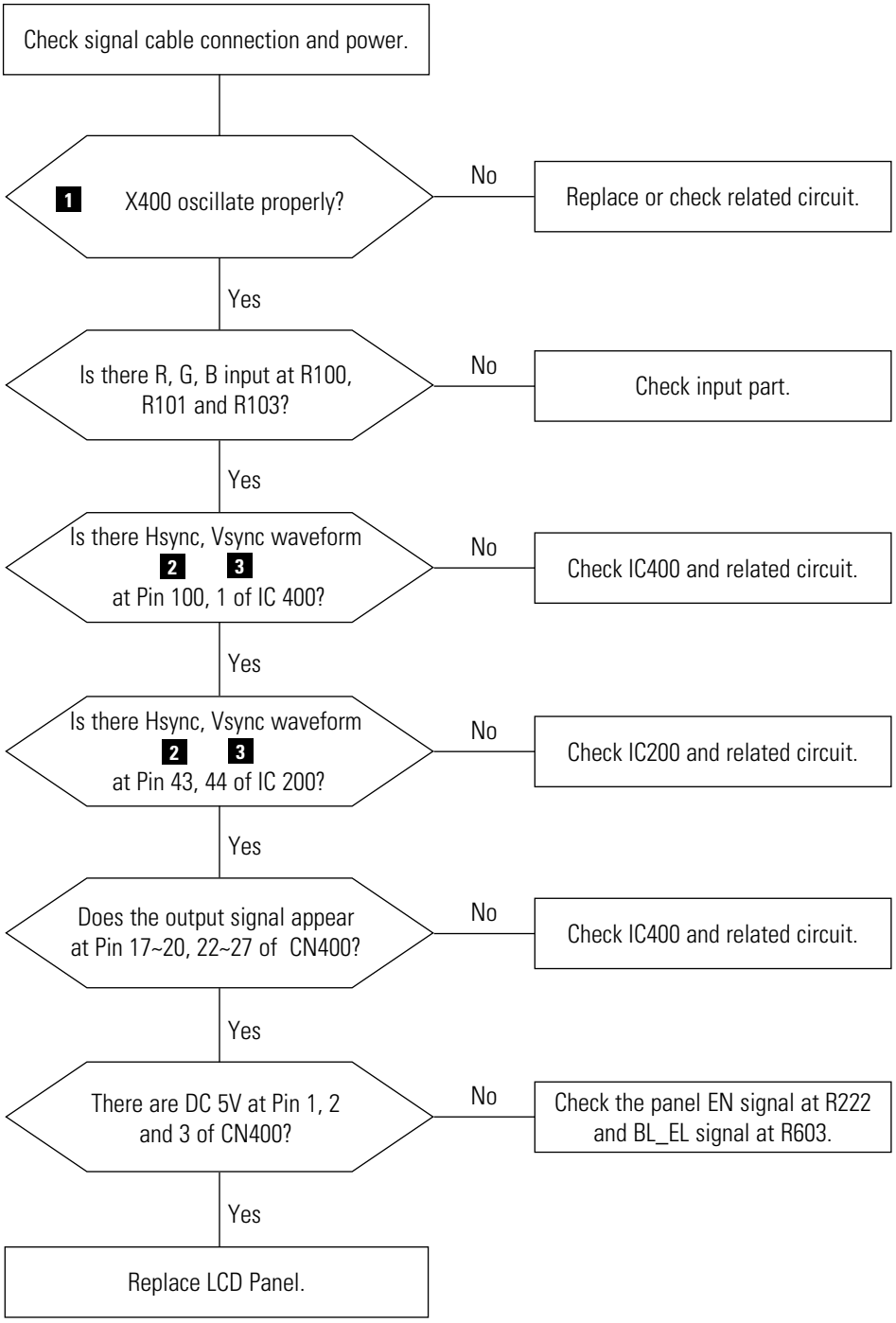

When Pin 4 of CN600 is 0V* does proper DC 13V, 5V appear at Pin 1, 2 and 6, 7 of CN600 separately?
Yes
No
Check Function Ass'y.
Change IP Board.
When Pin 4 of IC600 is DC 0.5V does proper DC 0.5V appear at Pin 5 and 6 of IC600?
Yes
No
Check IC600 and related circuit.
When Pin 2, 3 of IC601 is DC 3.3V does proper DC 4.3V appear at Pin 1 of IC601?
Yes
No
Check IC601 and related circuit.
When Pin 2, 3 of IC601 is DC 4.3V does proper DC 2.5V appear at Pin 4 of IC601?
Yes
No
Check IC601 and related circuit.

* 0V means power on state.
When the monitor work well except DPMS and power switch off, 0V should be applied to number 4 of CN600.

5-2 No Audio (GS15M*/GS17M*/GS19M*)

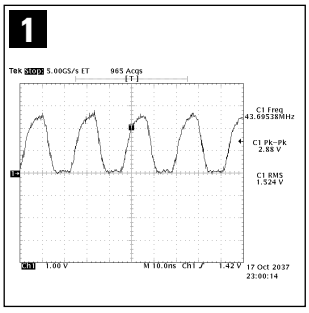

Check Stereo Cable.
When Pin 2 of IC600 is DC 5V does proper DC 13V appear at Pin 7, 8 of IC600?
No
Check IC600 and related circuit.
Yes
When Pin 1 of IC502 is DC 13V does proper DC 6V appear at Pin 3 of IC502?
No
Check IC502 and related circuit.
Yes
Does the signal appear at Pin 4, 6 of IC500?
No
Check Audio PBA and Sound Source.
Yes
Does the signal appear at Pin 9, 12, 13, and 16 of IC500?
No
Check IC500 and related circuit.
Yes
Check Specker and Audio Ass'y.

5-3 No Video

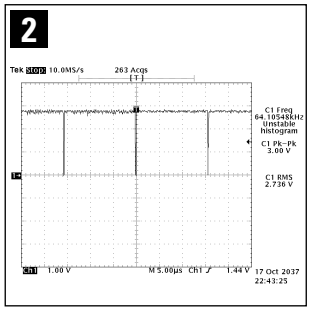

Check signal cable connection and power.
1 X400 oscillate properly?
No
Replace or check related circuit.
Yes
Is there R, G, B input at R100, R101 and R103?
No
Check input part.
Yes
Is there Hsync, Vsync waveform 2 3 at Pin 100, 1 of IC 400?
No
Check IC400 and related circuit.
Yes
Is there Hsync, Vsync waveform 2 3 at Pin 43, 44 of IC 200?
No
Check IC200 and related circuit.
Yes
Does the output signal appear at Pin 17~20, 22~27 of CN400?
No
Check IC400 and related circuit.
Yes
There are DC 5V at Pin 1, 2 and 3 of CN400?
No
Check the panel EN signal at R222 and BL_EL signal at R603.
Yes
Replace LCD Panel.

WAVEFORMS

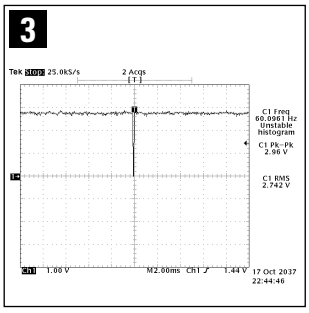
1



2



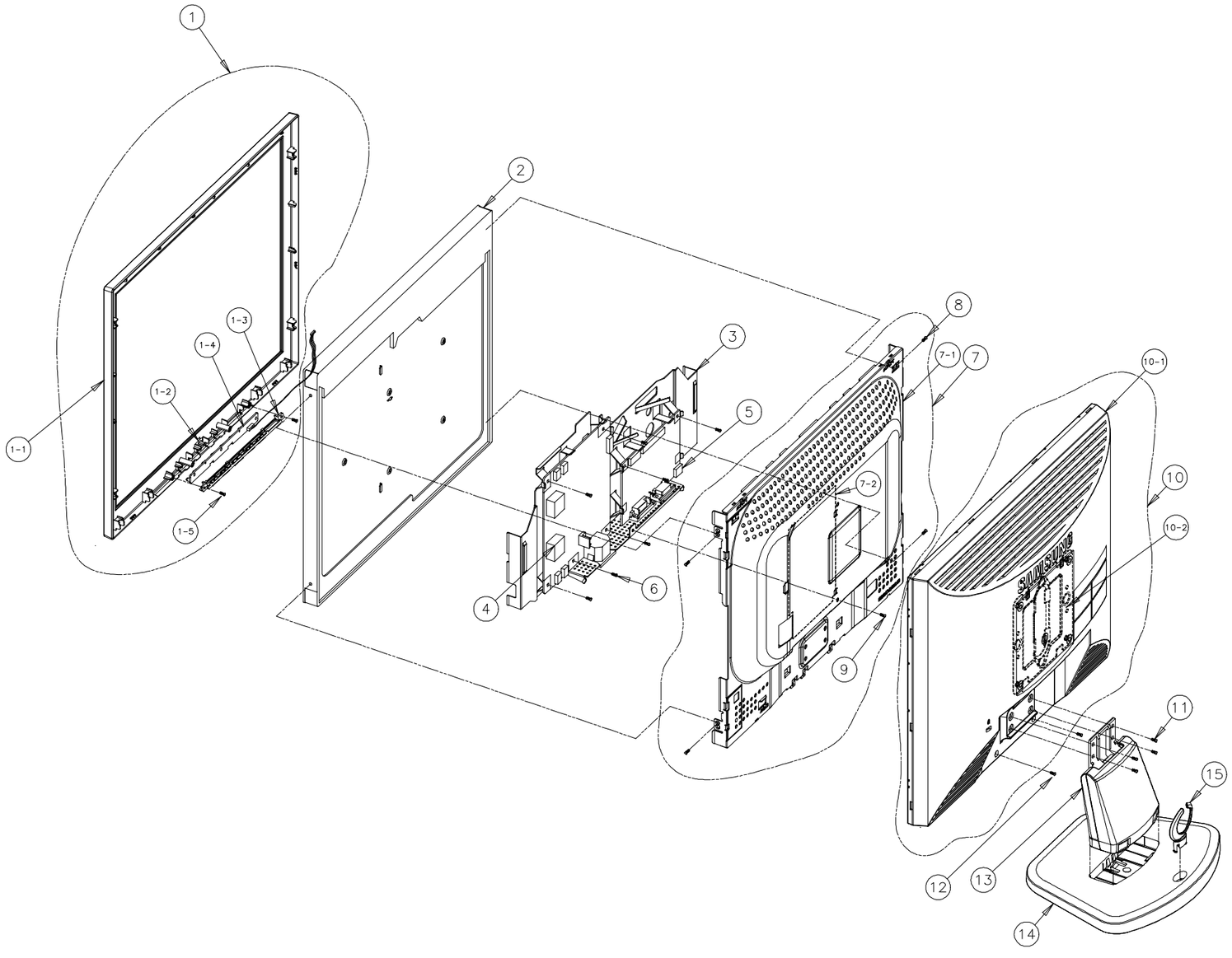
3



6 Exploded View and Parts List

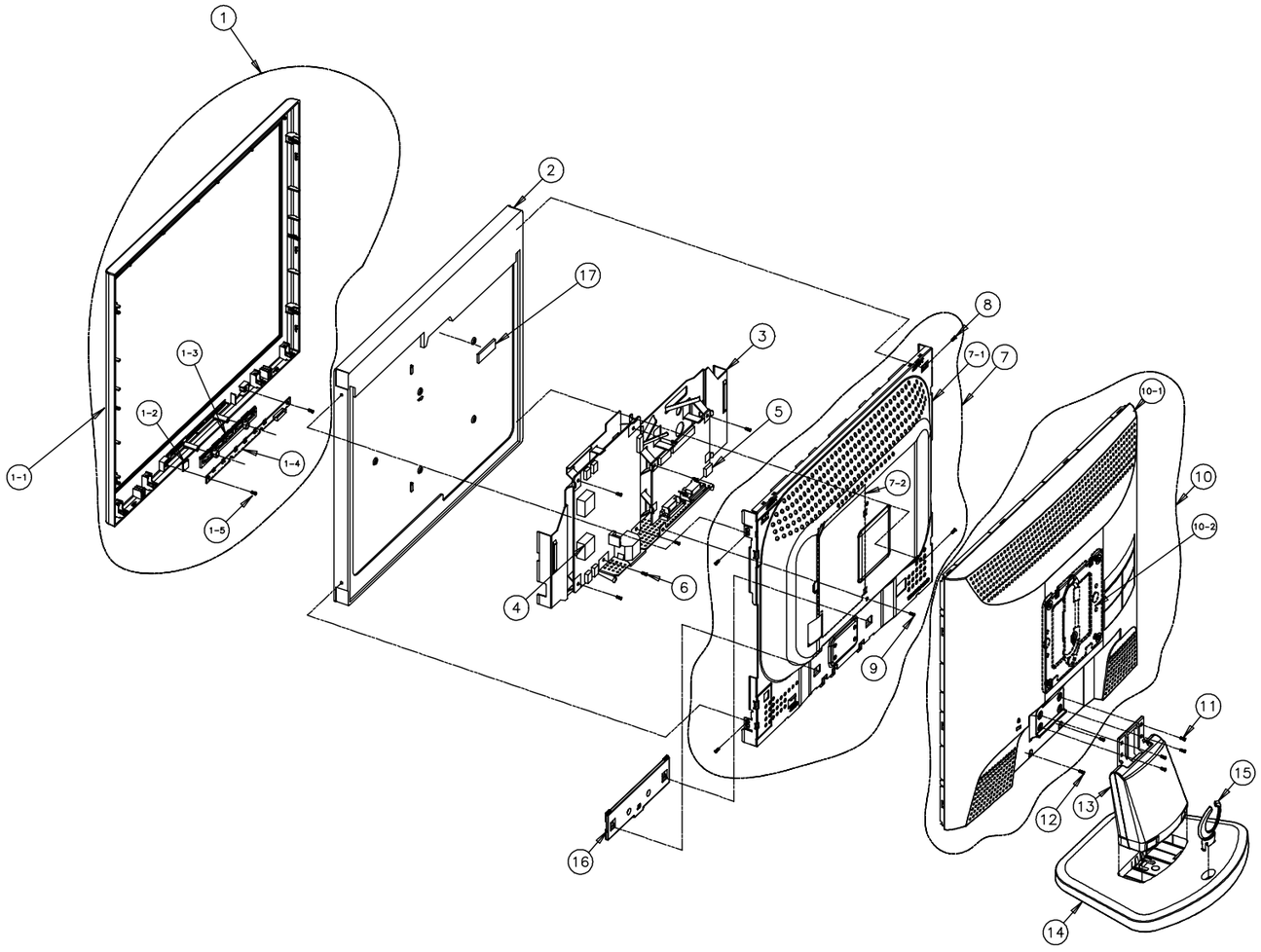
❉ You can search for updated part codes through ITSELF web site.
URL : http://itself. sec. samsung.co.kr

6-1 GS17VS



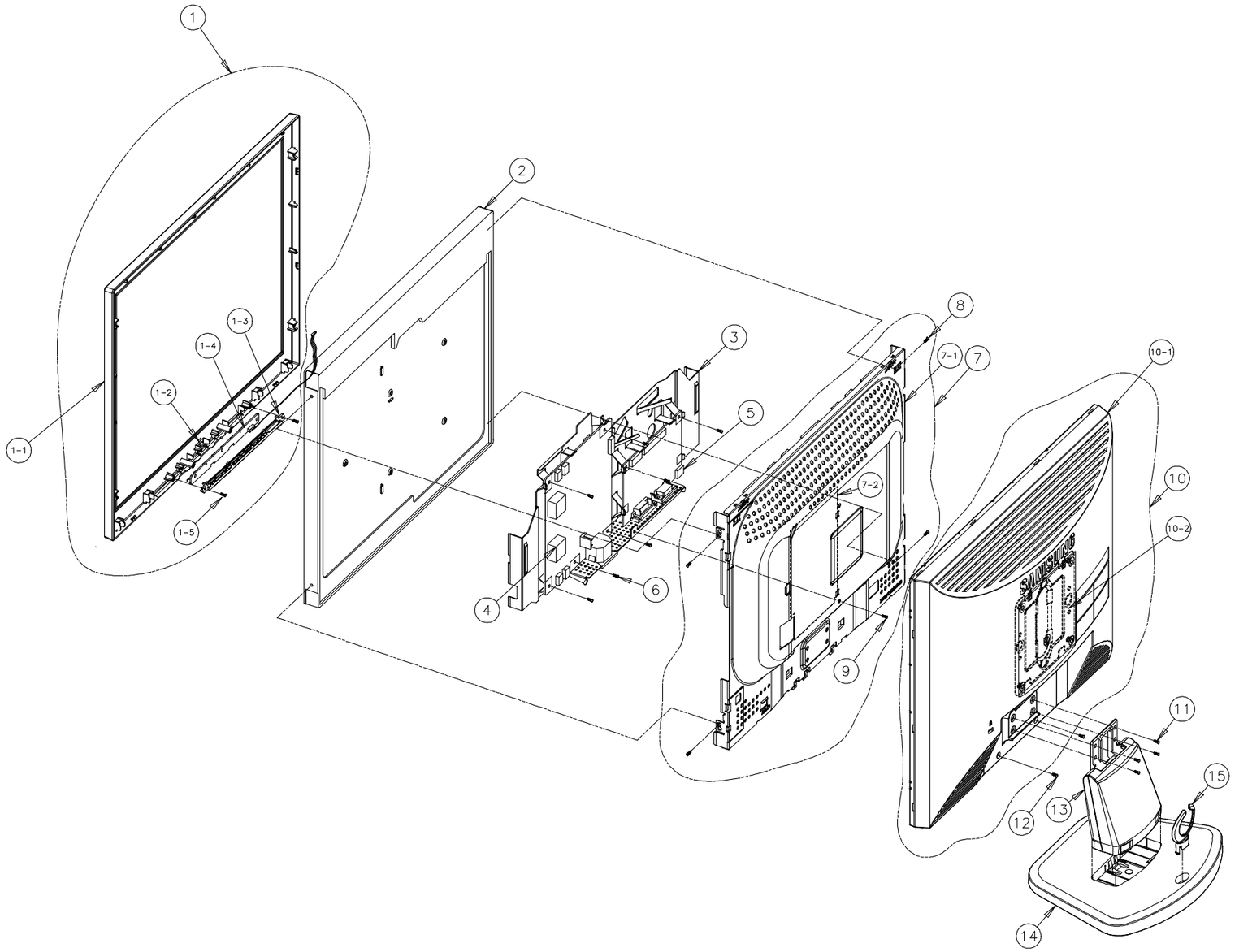
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01069A	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-00565K	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00139B	ABS+PC,GR70 SILVER	1	SNA
1-4	ASS'Y FUNCTION-PCB	BN96-01112A	-	1	SNA
1-5	SCREW TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL),SWCH10	2	SA
2	PANEL	BN07-00085A	LM17CD1-L01,GH17.5,1280*1024,17,1K:16M,56.0,264.0_264.0,0°,55.5,0.78,-	1	SA
3	BRKT-PCB	BN61-01102A	SECC T1.0,ANALOGTYPE	1	SNA
4	IP-BOARD	BN44-00106A	-	1	SA
5	MAIN-BOARD	BN94-00516S	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01059B	SECC T1.0	1	SNA
7-1	SHIELD-COVER	BN63-01211A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-MACHINE	6001-000559	FH,+,M3,L6,ZPC(YEL)	4	SA
9	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
10	ASSY,COVER-REAR	BN96-01070A	ABS HB,BK07	1	SA
10-1	COVER-REAR	BN63-01216A	ABS HB,BK07	1	SNA
10-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
11	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
12	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
13	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
14	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
15	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-2 GS17VT



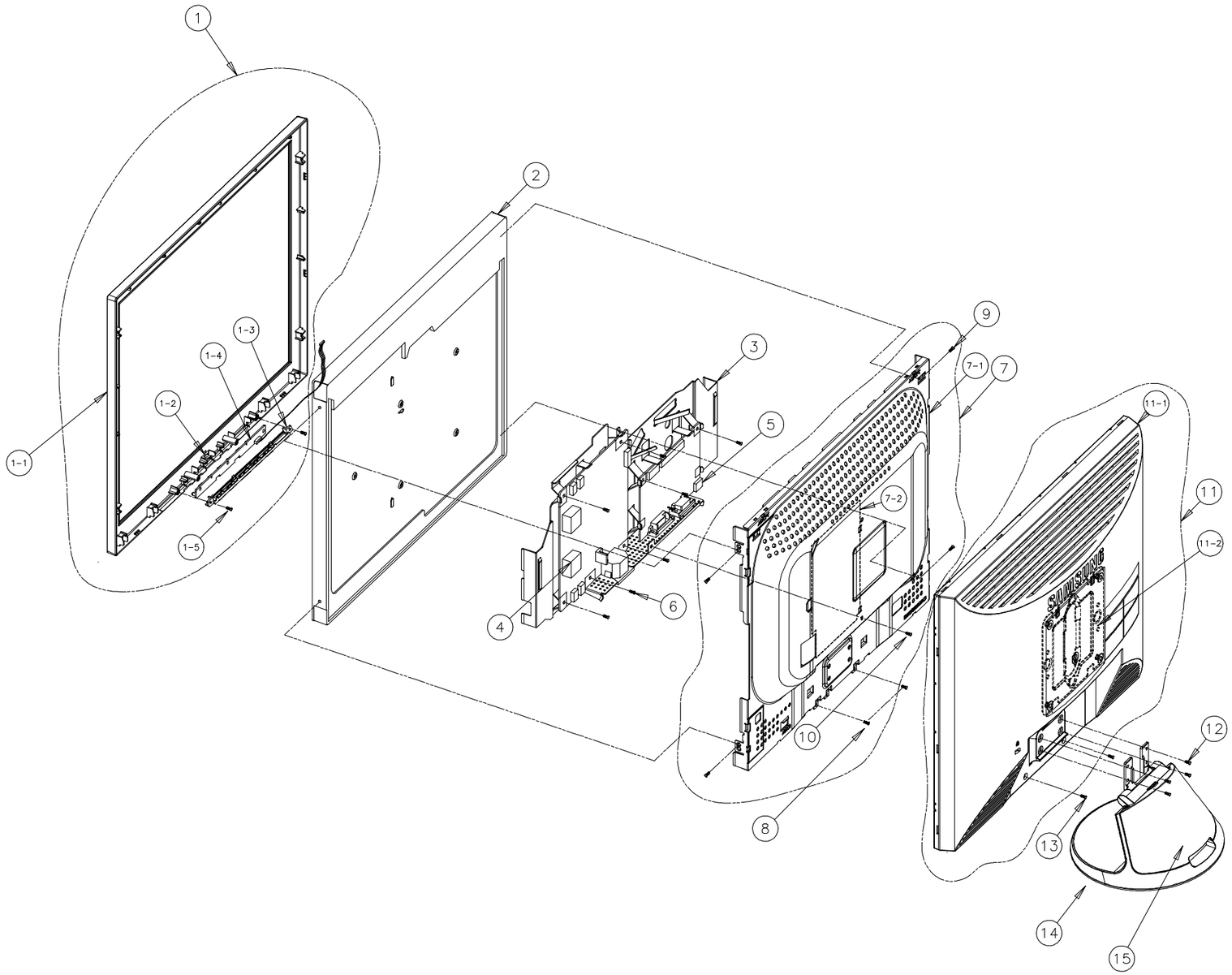
No.	DESCRIPTION	COD No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01086A	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-00586G	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00036A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00139B	ABS+PC,GR70 SILVER	1	SA
1-4	FUNCTION-PCB	BN96-01113A	-	1	SA
1-5	SCREW TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL)	2	SNA
2	AU-PANEL	BN07-00076A, BN07-00076B	-	1	SNA
3	BRKT-PCB	BN61-01102A	SECC T1.0,ANALOG TYPE	1	SNA
4	IP-BOARD	BN44-00082C	-	1	SA
5	MAIN-BOARD	BN94-00516S	-	1	SA
6	SCREW TAPTITE	6003-000117	BH +,B,M3,L6,ZPC(YEL),SWRC	7	SNA
7	ASSY,SHIELD-COVER	BN96-01059B	SECC T1.0	1	SA
7-1	SHIELD-COVER	BN63-01211A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-MACHINE	6001-000559	FH,+,M3,L6,ZPC(YEL)	4	SNA
9	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SNA
10	ASSY,COVER-REAR	BN96-01071A	ABS HB,BK07	1	SNA
10-1	COVER-REAR	BN63-01210A	ABS HB,BK07	1	SA
10-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
11	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SNA
12	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SNA
13	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
14	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
15	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA
16	SUPPORT-PANEL/AU	BN61-01219A	ABS HB,BK07	1	SNA
17	RUBBER-CUSHION	BN73-00030A	40X15X1.5T,BLACK,SL-020508 1.5T	1	SNA

6-3 GS19VS



No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01072A	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-00595H	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00076A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00139B	ABS+PC,GR70 SILVER	1	SNA
1-4	ASS'Y FUNCTION-PCB	BN96-01112A	-	1	SNA
1-5	SCREW TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL),SWCH10	2	SA
2	PANEL	BN07-00128B	LMPMEI-L02,Gyro,16.1M,464.2×330×20,16.3M,63.0,2940.2PH,0°S0.5H,Fhr	1	SA
3	BRKT-PCB	BN61-01103A	SECC T1.0,ANALOG TYPE	1	SNA
4	IP-BOARD	BN44-00106A	-	1	SA
5	MAIN-BOARD	BN94-00516T	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01060B	SECC T1.0	1	SNA
7-1	SHIELD-COVER	BN63-01217A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-MACHINE	6001-000364	FH,+,M3,L8,ZPC(YEL)	4	SA
9	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
10	ASSY,COVER-REAR	BN96-01073A	ABS HB,BK07	1	SA
10-1	COVER-REAR	BN63-01264A	ABS HB,BK07	1	SNA
10-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
11	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
12	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
13	ASSY,STAND	BN96-01064A	ABS HB,BK07	1	SA
14	STAND-BASE	BN61-01060A	ABS HB,BK07	1	SNA
15	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-4 GS19VT



No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01072B	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-00595H	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00076A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00139B	ABS+PC,GR70 SILVER	1	SNA
1-4	ASS'Y FUNCTION-PCB	BN96-01112A	-	1	SNA
1-5	SCREW TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL),SWCH10	2	SA
2	PANEL	BN07-00128B	LTM190E1-L02	1	SA
3	BRKT-PCB	BN61-01103A	SECC T1.0,ANALOG TYPE	1	SNA
4	IP-BOARD	BN44-00106A	-	1	SA
5	MAIN-BOARD	BN94-00516T	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01060B	-	1	SNA
7-1	SHIELD-COVER	BN63-01217A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL)	-	SA
9	SCREW-MACHINE	6001-000364	FH,+,M3,L8,ZPC(YEL)	4	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	ASSY,COVER-REAR	BN96-01073C	ABS HB,BK07	1	SA
11-1	COVER-REAR	BN63-01264A	ABS HB,BK07	1	SNA
11-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
12	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
13	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
14	ASSY,STAND	BN96-00300B	GY19VS ABS HB,BK07	1	SNA
15	COVER-STAND	BN63-00590B	GY19VS ABS HB,BK07	1	SNA

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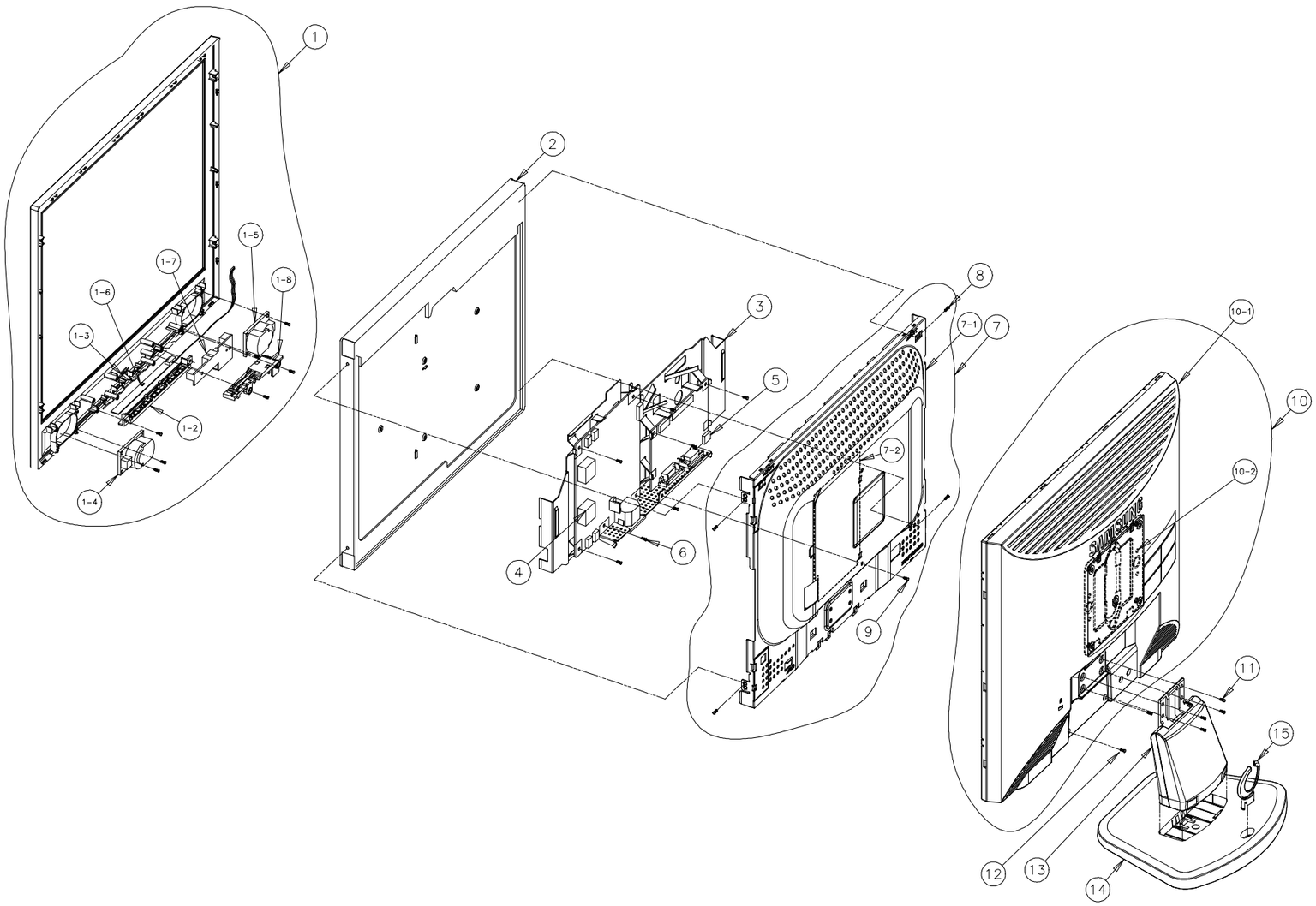
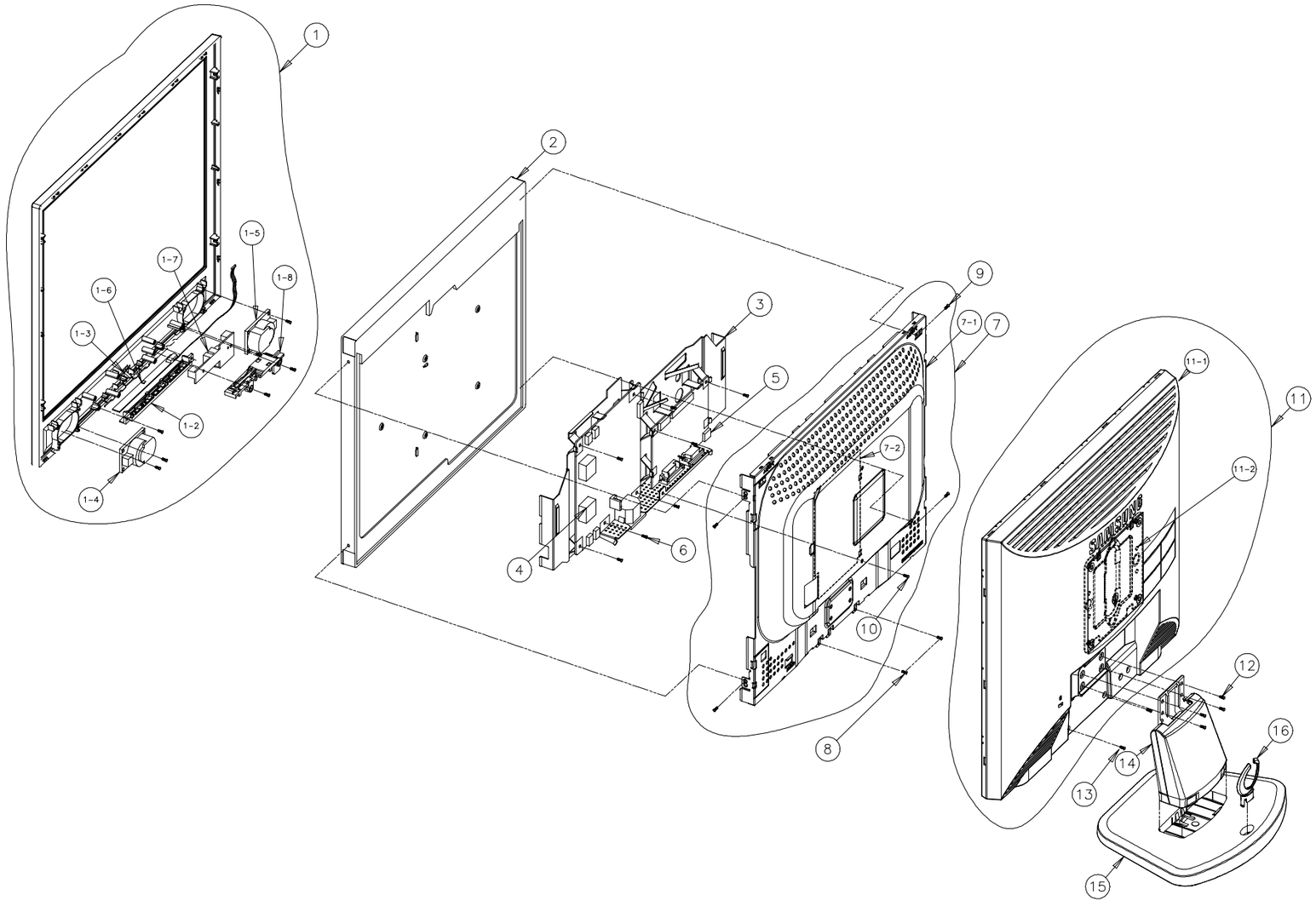


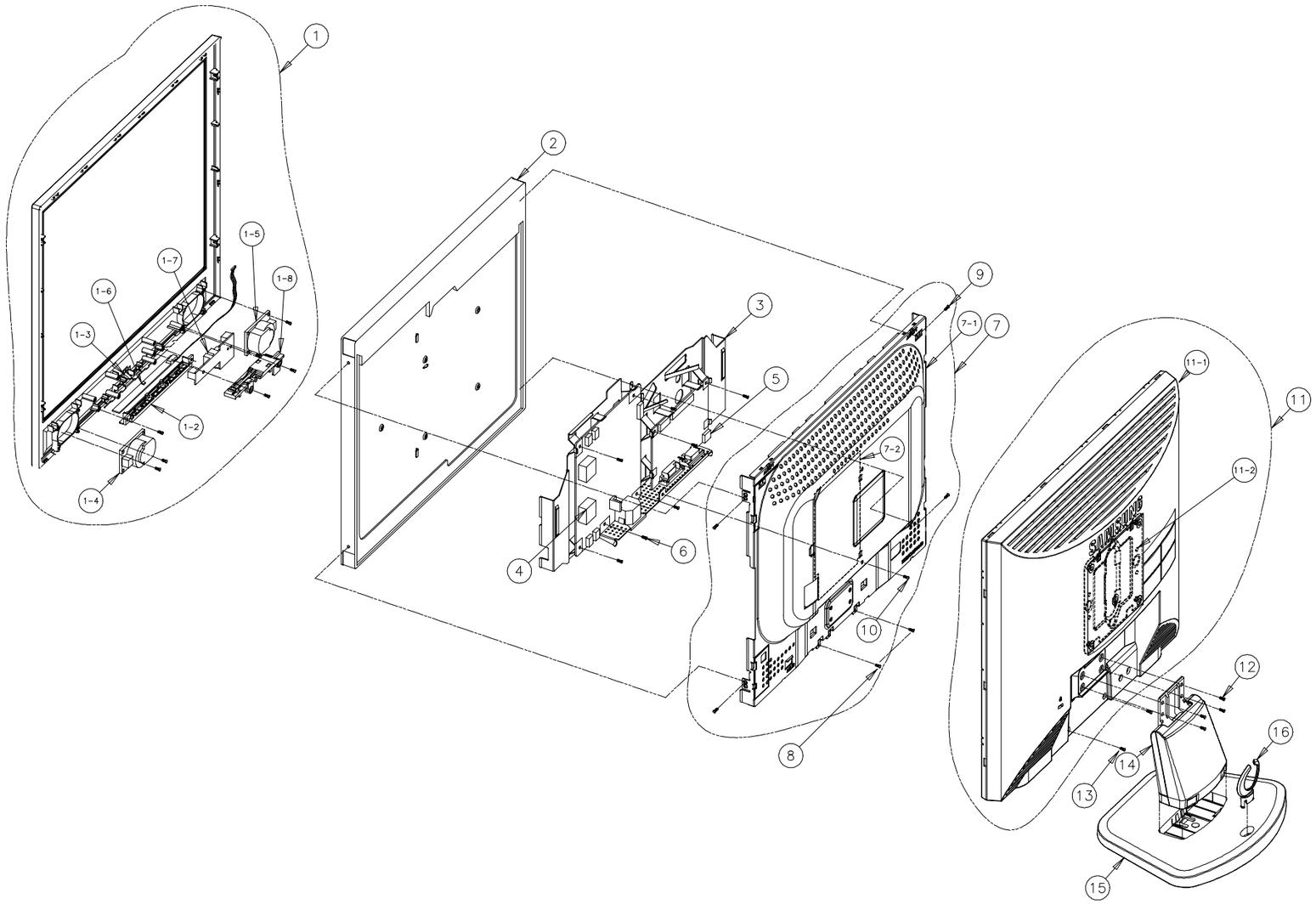
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01078A	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-01196A	ABS HB GR70 SILVER	1	SNA
1-2	KNOB-FUNCTION	BN64-00154B	ABS+PC,BK07	1	SNA
1-3	LENS-LED	BN67-00074A	ACRYL,CLEAR	1	SNA
1-4	SPEAKER-R	BN96-00518A	-	1	SA
1-5	SPEAKER-L	BN96-00515A	-	1	SA
1-6	ASSY BOARD P FUNCTION	BN96-01156A	-	1	SNA
1-7	ASSY BOARD	-	-	1	SNA
1-8	GUIDE-AUDIO	BN61-01218A	ABS HB	1	SNA
1-9	SCREW TAPTITE	6003-000259	BH,+,B,M3,L8	8	SA
2	PANEL	BN07-00164B	LBN350D-LED,Matrix,6 BIT,32K,54.25X1,17.1X,10K,56,X,3840,3M,0°35,5.0,TX-	1	SA
3	BRKT-PCB	BN61-01068A	SECC T1.0,ANALOG TYPE	1	SNA
4	IP-BOARD	BN44-00107B	-	1	SA
5	MAIN-BOARD	BN94-00527E	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01058A	SECC T1.0	1	SNA
7-1	SHIELD-COVER	BN63-01192A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-MACHINE	6001-000125	BH,+,M3,L4,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
10	ASSY,COVER-REAR	BN96-01080A	ABS HB,BK07	1	SA
10-1	COVER-REAR	BN63-01197A	ABS HB,BK07	1	SNA
10-2	BRKT-VESA	BN61-00397A	SECC,T1.0	1	SNA
11	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
12	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
13	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
14	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
15	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-6 GS17MS



No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01083A	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-00653H	ABS HB GR70 SILVER	1	SNA
1-2	KNOB-FUNCTION	BN67-00154B	ABS+PC,BK07	1	SNA
1-3	LENS-LED	BN67-00074A	ACRYL,CLEAR	1	SNA
1-4	SPEAKER-R	BN96-00518A	-	1	SA
1-5	SPEAKER-L	6003-00515A	-	1	SA
1-6	ASSY BOARD P FUNCTION	BN96-01156A	-	1	SNA
1-7	ASSY BOARD	-	-	1	SNA
1-8	GUIDE-AUDIO	BN61-01218A	ABS HB	1	SNA
1-9	SCREW TAPTITE	6003-000259	BH,+,B,M3,L8	8	SA
2	PANEL	BN07-00085A	LTM170EU-L01	1	SA
3	BRKT-PCB	BN61-01102A	SECC T1.0,ANALOG TYPE	1	SNA
4	IP-BOARD	BN44-00106A	-	1	SA
5	MAIN-BOARD	BN94-00527A	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01059B	SECC T1.0	1	SNA
7-1	SHIELD-COVER	BN63-01211A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL),SWRC	2	SA
9	SCREW-MACHINE	6001-000559	FH,+,M3,L6,ZPC(YEL)	4	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	ASSY,COVER-REAR	BN96-01079A	ABS HB,BK07	1	SA
11-1	COVER-REAR	BN63-01199A	ABS HB,BK07	1	SNA
11-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
12	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
13	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
14	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
15	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
16	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-7 GS19MS



No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01084A	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-01200A	ABS HB GR70 SILVER	1	SNA
1-2	KNOB-FUNCTION	BN67-00154B	ABS+PC,BK07	1	SNA
1-3	LENS-LED	BN67-00076A	ACRYL,CLEAR	1	SNA
1-4	SPEAKER-R	BN96-00518A	-	1	SA
1-5	SPEAKER-L	6003-00515A	-	1	SA
1-6	ASSY BOARD P FUNCTION	BN96-01156A	-	1	SNA
1-7	ASSY BOARD	-	-	1	SNA
1-8	GUIDE-AUDIO	BN61-01218A	ABS HB	1	SNA
1-9	SCREW TAPTITE	6003-000259	BH,+,B,M3,L8	8	SA
2	PANEL	BN07-00128B	LTM190E1-L02	1	SA
3	BRKT-PCB	BN61-01103B	SECC T1.0,ANALOG TYPE	1	SNA
4	IP-BOARD	BN44-00106A	-	1	SA
5	MAIN-BOARD	BN94-00527A	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01060B	-	1	SNA
7-1	SHIELD-COVER	BN63-01217A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL)	2	SA
9	SCREW-MACHINE	6001-000364	FH,+,M3,L8,ZPC(YEL),SM20C,	4	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	ASSY,COVER-REAR	BN96-01081A	ABS HB,BK07	1	SA
11-1	COVER-REAR	BN63-01201A	ABS HB,BK07	1	SNA
11-2	BRKT-VESA	BN61-00397A	SECC,T1.0	1	SNA
12	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
13	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
14	ASSY,STAND	BN96-01064A	ABS HB,BK07	1	SA
15	STAND-BASE	BN96-01109A	ABS HB,BK07	1	SNA
16	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

Memo

7 Electrical Parts List

❋ You can search for updated part codes through ITSELF web site.
URL : http://itself.sec.samsung.co.kr/

7-1-1 GS15MS Main PCB Parts

Level	Loc. No.	Code No.	Description	Specification	Remarks
0	GS15MS				
1	E27-GS15MS	-	1	SEC,LTM150XO-L01	-
3	BN94-00527E	-	ASSY PCB MAIN	GS15MS	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H70H,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX13%,14KG,-	SNA
4	BN39-00523A	CIS6	LEAD CONNECTOR	GS(MJ)15/17/19*,UL1061#28,UL/CSA,6P/5P,200mm,#28,12507HS-06L,12505HS-05,BK,SJ04-	-
4	BN39-00515A	CIS7	LEAD CONNECTOR	GS17/19MS,UL1061#28,UL,7P/7P,290MM,#28,SMH200-07,12507HS-07L,BK,AT TAPE	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004350	CN500	CONNECTOR-HEADER	BOX,7P,1R,2MM,ANGLE,SN	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	1201-001805	IC500	IC-AUDIO AMP	TDA7053A,DIP,16P,300MIL,DUAL,40.5DB,PLASTIC,18V,2.5W,-40TO+85C,-,-,-,-,-,ST	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN97-00354K	MICOM	ASSY MICOM	GS17VS	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,-0to+70C,256B,-,-	SNA
5	BN82-00114L	CIS	A/S MICOM	GS17VS	SNA
4	BN97-00358U	-	ASSY SMD	GS15MS	SNA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005005	C202	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005005	C208	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA

Level	Loc. No.	CodeNo.	Description	Specification	Remarks
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001086	C500	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2203-000189	C501	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-005065	C502	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C503	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C600	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2402-001044	C601	C-AL,SMD	100UF,20%,25V,GP,TP,8.3X8.3X6.3MM	SA
5	2203-000257	C602	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0406-001163	D500	DIODE-TVS	CDS3C05GTA,6.4V/-/-,-,SMD	SA
5	0406-001163	D501	DIODE-TVS	CDS3C05GTA,6.4V/-/-,-,SMD	SA
5	0402-001080	D600	DIODE-RECTIFIER	GF1G,400V,1A,DO,TP	SA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SNA
5	1203-003268	IC502	IC-POSI.FIXED REG.	MC7806,D2PAK,3P,10.02x9.194mm,PLASTIC,5.75/6.25V,-,-40to+125C,1A,-,TP,Drop Out :	SA
5	0505-001772	IC600	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	SA
5	1203-003209	IC601	IC-DUAL VOLTAGE REGULATOR	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	1203-001293	IC602	IC-POSI.FIXED REG.	033,T0-252,3P,6.5MIL,PLASTIC,3	SA
5	BN41-00412A	MP1.0	PCB MAIN	MJ/GS,SILVER THROGH HOLE,2L,1.0,1.6T,118*78.2,4A	SNA
5	0501-002080	Q600	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R213	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R220	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000080	R222	R-CHIP	2Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R245	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R249	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000965	R500	R-CHIP	5.1Kohm,5%,1/10W,TP,1608	SA
5	2007-000965	R501	R-CHIP	5.1Kohm,5%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-001010	R504	R-CHIP	51Kohm,5%,1/10W,TP,1608	SA
5	2007-001010	R505	R-CHIP	51Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R601	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R602	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R603	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA

7-1-2 GS15MS Others

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN90-00486D	-	ASSY STAND	MJ17BS/GS17VT/GS17MS,EDC	SNA
3	BN96-01063A	STD	ASSY STAND P-SIMPLE	MJ15/17ASBS,ABS HB,BK07	SNA
4	6003-000269	STD	SCREW-TAPTITE	BH,+,S,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-001086	STD	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
4	BN61-00822A	STD	STAND-BRKT HINGE	GS17VS,SECC,T1.2	SNA
4	BN61-00825A	STD	STAND-FRONT	GS17VS,ABS HB,BK07	SNA
4	BN61-00826A	STD	STAND-REAR	GS17VS,ABS HB,BK07	SNA
4	BN96-01061A	STD	ASSY MISC P-HINGE	MJ15-17AS/BS,ZNDC2	SNA
2	BN90-00640M	-	ASSY COVER FRONT	GS15MS	SNA
3	6003-001086	C/F+C/R	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
3	BN96-01078A	C/F	ASSY COVER P-FRONT	GS15MS,ABS HB,GR70,SILVER SPRAY	SNA
2	BN90-00641F	-	ASSY COVER REAR	GS15MS	SNA
3	6003-000337	C/R+STD	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	SNA
3	BN96-01080A	C/R	ASSY COVER P-REAR	GS15MS,ABS HB	SNA
2	BN91-00403W	-	ASSY LCD-E27	MJ15BS	SNA
3	BN07-00164A	LCD	LCD-PANEL	LTM150X0-L01,Matisse,6 BIT,326.5*253.5*12,16.2M,40,0.297*0.297,0~50,3.3V,TN	SNA
2	BN91-00481Q	-	ASSY SHIELD	GS15MS	SNA
3	0203-001598	CIS	TAPE-FILAMENT	#8915,0.15,12,55000,CLR	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15A0(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	SA
3	BN39-00507A	CIS	LEAD CONNECTOR	MJ15*S,UL1571#30,20P/30P,90mm,#30,12507HS-20,12507HS-30L,BK,SJ03-01-636,AT TAPE	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6001-000125	SH/COV+PAN	SCREW-MACHINE	BH,+,M3,L4,ZPC(YEL),SM20C,-	SNA
3	BN96-01058A	CIS	ASSY MISC P-SHIELD COVER	MJ15AS/BS,SECC T0.8	SNA
2	BN91-00784V	-	ASSY CHASSIS	GS15MS	SA
3	BN44-00107B	CIS	IP BOARD	DAC-12M001B,MT15,4.5mA,8.0mA,48KHZ,2,90V/264VAC,+13V/+5V,0 to +40,-20 to +60,50/	SNA
3	BN61-01068A	CIS	BRACKET-PCB	MJ15AS,SECC,T1.0	SNA
2	BN92-00709A	-	ASSY LABEL	GY17VS,,,,	SNA
3	BN68-00614A	LABEL	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA
2	BN92-00982K	-	ASSY P/MATERIAL	GS15MS	SNA
3	0203-001100	P/M	TAPE-OPP MASKING	OPP/W75/CLR,T0.05,W75,L800000,CLR	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000520	P/M	BAG PE	HDPE/NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH69-00457C	P/M	PACKING-PAD BOTTOM	CY15PO,FOAM,T3.0,1320,880	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-,	SNA
3	BN68-00129A	P/M	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00140V	P/M	PAD-PALLET COVER	RB15AS,SW4,1200,3530,-,-,-,-,-	SNA
3	BN69-00140W	P/M	PAD PACKING	VR22KO,CB SW-4,700,3800,YEL	SNA
3	BN69-00617D	P/M	PALLET-PACKING	WOODEN,1300,830,120	SNA
3	BN69-00736A	P/M	CUSHION	GS15MS,EPS M50	SNA
2	BN92-01043D	-	ASSY BOX	GS15MS	SNA
3	BH68-00329C	BOX	LABEL BAR CODE-02	ALL,TCO99,DOMESTIC,MOJO 90G,WHT	SNA
3	BN69-00763A	BOX	BOX	S/M510M(GS15MS),CB-SW4,YEL,A-1,W421*D401*H101	SNA
2	BN92-01049D	-	ASSY ACCESSORY	GS15/17MS,EDC,NETHERLANDS	-
3	BN96-01108A	ACCESSORY	ASSY STAND P-BASE	MJ17AS/BS,ABS HB,BK07	SNA
4	6003-001185	STAND/BASE	SCREW-TAPTITE	FH,+,B,M3,L8,NI PLT,SWRCH18A	SNA
4	6009-001442	STAND/BASE	SCREW-SPECIAL	CH,-,-,M4,L10(5),ZPC(YEL),SWRCH18A,-,HD12,2 BODY	SA
4	6902-000110	STAND/BASE	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	6902-000336	STAND/BASE	BAG ZIPPER	LDPE,T0.05,L80,W70,TRP,,,PE MARK	SNA
4	BH68-20366B	STAND/BASE	LABEL-00,STANDE BASE	MJ15,17,ART PAPER,55X10,RED	SNA
4	BN61-00048A	STAND/BASE	FOOT-RUBBER	GH15LS,PORON,DIA13.5MM,BLACK,2MM,-,-	SNA
4	BN61-00821A	STAND/BASE	STAND-HOLDER	GS17VS,ABS HB,BK07	SNA
4	BN61-00824A	STAND/BASE	STAND-BASE	GS17VS,ABS HB,BK07	SNA
4	BN61-01167A	STAND/BASE	BRACKET-BASE/SUPPORT	MJ17AS/BS,SECC,T1.2	SNA

Level	Loc. No.	Code No.	Description	Specification	Remarks
4	BN68-00473P	STAND/BASE	MANUAL INSTALL	Goya2 Stand Guide,SyncMaster,W/W	SNA
3	BN96-01184D	UNIT/ACCESSORY	ASSY ACCESSORY	GS15/17/19MS,EDC,NETHERLANDS	-
4	0203-000214	ACCESSORY	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
4	3903-000042	ACCESSORY	CBF-POWER CORD	DT,EU,FP3/YES,IEC320 C13/C14,250/250V,10-16/10A,BLK,1830MM,-,H05VV-F 3X0.75MM^2,	SA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	BH68-70438A	ACCESSORY	CARD-BLOC WARRANTY-09	TFT LCD,BASIC,EU,MOJO,100G,W21	SNA
4	BH68-70448A	ACCESSORY	CARD-01	TFT LCD,SRC,RUSSIA,S/W,120,W210*L120,INSTALL CARD	SNA
4	BN39-00061A	ACCESSORY	CBF SIGNAL-STEREO	,1P,UL2851#28,2000MM,BLACK	SA
4	BN96-01165A	ACCESSORY	ASSY MANUAL P-IB+QSG	710T,SyncMaster,W/W,27Lang,BN59-423A+BH68-376L	SNA
5	BH68-00376L	CIS	MANUAL-01	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SA
5	BN59-00423A	CIS	S/W DRIVER-00,IB	710V,W/W,SyncMaster,27 Lang	SNA
1	E28-GS15MS	-	2	SEC,LTM150XO-L01(ZPD)	-

7-2-1 GS17VS Main PCB Parts

Level	Loc. No.	Code No.	Description	Specification	Remarks
0	GS17VSSB/NZR				
1	EJ-GS17VSSB/NZR	-	1	SEC,LTM170EU-L01	-
3	BN94-00516S	-	ASSY PCB MAIN-ET/EJ	GS17VS	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H7OH,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG,-	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN97-00354K	MICOM	ASSY MICOM	GS17VS	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,0to+70C,256B,-,-	SNA
5	BN82-00114L	CIS	A/S MICOM	GS17VS	SNA
4	BN97-00358G	-	ASSY SMD	GS17VS/17VT/GS19VT	SNA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001080	D600	DIODE-RECTIFIER	GF1G,400V,1A,DO,TP	SA
5	3301-001145	FT600	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SNA
5	0505-001772	IC600	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	SA
5	1203-003209	IC601	IC-DUAL VOLTAGE REGULATOR	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	BN41-00412A	MP1.0	PCB MAIN	MJ/GS,SILVER THROGH HOLE,2L,1.0,1.6T,118*78.2,4A	SNA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000080	R222	R-CHIP	2Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R602	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R603	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA

7-2-2 GS17VS Others

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN90-00486D	-	ASSY STAND	MJ17BS/GS17VT/GS17MS,EDC	SNA
3	BN96-01063A	STD	ASSY STAND P-SIMPLE	MJ15/17ASBS,ABS HB,BK07	SNA
4	6003-000269	STD	SCREW-TAPTITE	BH,+,S,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-001086	STD	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
4	BN61-00822A	STD	STAND-BRKT HINGE	GS17VS,SECC,T1.2	SNA
4	BN61-00825A	STD	STAND-FRONT	GS17VS,ABS HB,BK07	SNA
4	BN61-00826A	STD	STAND-REAR	GS17VS,ABS HB,BK07	SNA
4	BN96-01061A	STD	ASSY MISC P-HINGE	MJ15-17AS/BS,ZNDC2	SNA
2	BN90-00630S	-	ASSY COVER REAR	GS17VS,EDC	SNA
3	6003-000337	C/R+STD	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	SNA
3	BN96-01070A	C/R	ASSY COVER P-REAR	GS17VS,ABS HB,BK07	SNA
4	BN61-00377A	C/R	BRACKET-VESA	GOYA19(193V),SECC,T1.0	SNA
4	BN63-01216A	C/R	COVER-REAR	GS17VS,ABS HB,BK07	SNA
2	BN90-00635E	-	ASSY COVER FRONT	GS17VSSB/NZR,RADIOLA	SNA
3	6003-001086	C/F+C/R	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
3	BN96-01069C	CIS	ASSY COVER P-FRONT	GS17VS,ABS HB,BK07	SNA
4	6003-000276	CIS	SCREW-TAPTITE	BH,+,B,M3,L10,ZPC(YEL),SWCH10	SNA
4	BH68-00035F	CIS	LABEL-TC099	MONITOR,GOYA,PE,T0.05,18.8*16.5,CLEAR	SNA
4	BN63-00565L	CIS	COVER-FRONT	GY17VS,ABS HB BK07	SNA
4	BN64-00139B	CIS	KNOB POWER-FUNCTION	GY15VS,ABS+ PC 5V,BK07	SNA
4	BN67-00074A	CIS	LENS-LED	GOYA17(173V),ACRYL,CLEAR	SNA
4	BN96-01112A	CIS	ASSY BOARD P-FUNCTION	GOYA2_SYNC,FUNCTION	SNA
2	BN91-00388Q	-	ASSY LCD-EJ	MO17PS	SNA
3	BN07-00071A	CIS	LCD	LTM170EU-L01,GH17LS,1280*1024,17,16.19M,56,0.264*0.264,0~55,5.0,TN,-	SA
2	BN91-00784G	-	ASSY CHASSIS-ET/EJ	GS17VS	SA
3	BN44-00113A	CIS	IP BOARD	MATISSE,1.5mA~3.0mA,6.1mA~7.3mA,48kHz,4,AC90V~264VAC,5Vdc / 13Vdc,0°…°≠ 32°…,50/	SNA
3	BN61-01102A	CIS	BRACKET-PCB	MJ17AS,SECC,T1.0	SNA
2	BN91-00785B	-	ASSY SHIELD	GS17VS	SNA
3	0203-001598	CIS	TAPE-FILAMENT	#8915,0.15,12,55000,CLR	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15AO(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	SA
3	BN39-00506A	CIS	LEAD CONNECTOR	GS17/19*/MJ19,UL1571#30,UL/CSA,30P,160mm,#30,12507HS-30L,1615A-30,BK,SJ03-01-293	SNA
3	BN39-00523A	CIS	LEAD CONNECTOR	GS(MJ)15/17/19*,UL1061#28,UL/CSA,6P/5P,200mm,#28,12507HS-06L,12505HS-05,BK,SJ04-	-
3	BN61-01234A	CIS	HOLDER-INVERTER	MATISSE,ABS V0,BK07	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6001-000559	SH/COV+PAN	SCREW-MACHINE	FH,+,M3,L6,ZPC(YEL),SWRCH18A,FP,-	SNA
3	BN96-01059B	CIS	ASSY MISC P-SHIELD COVER	GS17VS/VT/MS	SNA
4	BN63-01211B	CIS	SHIELD-COVER	GS17VS/VT/MS,SECC,T1.0	SNA
4	BN63-01313A	CIS	COVER-INSULATOR	MJ17,19AS/BS,PET,T0.35	SNA
2	BN92-00982C	-	ASSY P/MATERIAL	GS17VS,EDC	SNA
3	0203-001102	P/M	TAPE-OPP MASKING	OPP-2,T0.05,W100,L400M,CLR	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000520	P/M	BAG PE	HDPE/NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH69-00457C	P/M	PACKING-PAD BOTTOM	CY15PO,FOAM,T3.0,1320,880	SNA
3	BH69-40308A	P/M	PALLET-PACKING	GH15LS,WOOD,-,-,W1390,L916,H120,-,-,-	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-,	SNA
3	BN68-00129A	P/M	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00123L	P/M	PAD PACKING	RJ15PO	SNA
3	BN69-00140T	P/M	PAD-PALLET COVER	SUN(LSA810),SW,900,3760,-,-,-,-,-	SNA
3	BN69-00732A	P/M	CUSHION	GS17VS,EPS M50	SNA
2	BN92-01013D	-	ASSY LABEL	GS15MSSS,ADC,UNITED STATES	SNA
3	BN68-00614A	CIS	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN92-01017K	-	ASSY BOX	GS17VSSS/XSH,SEHK,HONGKONG	SNA
3	BH68-00329C	BOX	LABEL BAR CODE-02	ALL,TCO99,DOMESTIC,MOJO 90G,WHT	SNA
3	BN69-00759A	BOX	BOX-01	S/M710V(GS17VS) W/W,CB-SW4,YEL,A-1,W451*D440*H117	SNA
2	BN92-01050H	-	ASSY ACCESSORY	GS17VSSB/NZR,RADIOLA,NEW ZEALAND	SNA
3	BN96-01108A	CIS	ASSY STAND P-BASE	MJ17AS/BS,ABS HB,BK07	SNA
4	6003-001185	STAND/BASE	SCREW-TAPTITE	FH,+,B,M3,L8,NI PLT,SWRCH18A	SNA
4	6009-001442	STAND/BASE	SCREW-SPECIAL	CH,-,-,M4,L10(5),ZPC(YEL),SWRCH18A,-,HD12,2 BODY	SA
4	6902-000110	STAND/BASE	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	6902-000336	STAND/BASE	BAG ZIPPER	LDPE,T0.05,L80,W70,TRP,,,PE MARK	SNA
4	BH68-20366B	STAND/BASE	LABEL-00,STANDE BASE	MJ15,17,ART PAPER,55X10,RED	SNA
4	BN61-00048A	STAND/BASE	FOOT-RUBBER	GH15LS,PORON,DIA 13.5MM,BLACK,2MM,-,-	SNA
4	BN61-00821A	STAND/BASE	STAND-HOLDER	GS17VS,ABS HB,BK07	SNA
4	BN61-00824A	STAND/BASE	STAND-BASE	GS17VS,ABS HB,BK07	SNA
4	BN61-01167A	STAND/BASE	BRACKET-BASE/SUPPORT	MJ17AS/BS,SECC,T1.2	SNA
4	BN68-00473P	STAND/BASE	MANUAL INSTALL	Goya2 Stand Guide,SyncMaster,W/W	SNA
3	BN96-01191H	CIS	ASSY ACCESSORY	GS17VSSB/NZR,RADIOLA,NEW ZEALAND	SA
4	0203-000214	CIS	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
4	6801-001120	W/CARD	CARD-WARRANTY	AUS,XSA,ENG,MOJO150,,W185,L85,2,	SNA
4	6902-000110	CIS	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	BH39-10339K	CIS	CBF POWER CORD	DET,H05VV-F,250V/10A,BLK,1830M	SA
4	BN96-01165A	CIS	ASSY MANUAL P-IB+QSG	710T,SyncMaster,W/W,27Lang,BN59-423A+BH68-376L	SNA
5	BH68-00376L	CIS	MANUAL-01	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SA
5	BN59-00423A	CIS	S/W DRIVER-00,IB	710V,W/W,SyncMaster,27 Lang	SNA
1	ET-GS17VSSB/NZR	-	2	SEC,LTM170EU-L01 ZPD	-

7-3-1 GS19VS Main PCB Parts

Level	Loc. No.	Code No.	Description	Specification	Remarks
0	GS19VSSS				
1	E10-GS19VSSS	-	1	SEC,LTM190E1-L02	-
3	BN94-00516T	-	ASSY PCB MAIN-E10/E17	GS19VS/MJ19AS	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H70H,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG,-	SNA
4	BN63-00995A	CIS8	GASKET	GY17MS,CONDUCTIVE FAB,4MM,15MM,100MM,GRAY,32K,71TSSK-15-4-100-13	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN97-00354K	MICOM	ASSY MICOM	GS17VS	SA
5	BN82-00114L	CIS	A/S MICOM	GS17VS	SNA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,-0to+70C,256B,-,-	SNA
4	BN97-00358G	-	ASSY SMD	GS17VS/17VT/GS19VT	SNA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001080	D600	DIODE-RECTIFIER	GF1G,400V,1A,DO,TP	SA
5	3301-001145	FT600	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SNA
5	0505-001772	IC600	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	SA
5	1203-003209	IC601	IC-DUAL VOLTAGE REGULATOR	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	BN41-00412A	MP1.0	PCB MAIN	MJ/GS,SILVER THROGH HOLE,2L,1.0,1.6T,118*78.2,4A	SNA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000080	R222	R-CHIP	2Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R602	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R603	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA

7-3-2 GS19VS Others

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN90-00486H	-	ASSY STAND	MJ19BS/AS	SNA
3	BN96-01064A	STD	ASSY STAND P-SIMPLE	MJ19AS/BS,ABS HB,BK07	SNA
4	6003-000269	STD	SCREW-TAPTITE	BH,+,S,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-001086	STD	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
4	BN61-01061A	STD	STAND-FRONT	GS19VS,ABS HB,BK07	SNA
4	BN61-01062A	STD	STAND-REAR	GS19VS,ABS HB,BK07	SNA
4	BN61-01067A	STD	STAND-BRKT HINGE	GS19VS,SECC,T1.6,NAT	SNA
4	BN96-01062A	STD	ASSY MISC P-HINGE	MJ19AS/BS,ZNDC2	SNA
	BN90-00630T	-	ASSY COVER REAR	GS19VS,EDC	SNA
3	6003-000337	C/R+STD	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	SNA
3	BN96-01073A	C/R	ASSY COVER P-REAR	GS19VS,ABS HB,BK07	SNA
4	BN61-00377A	C/R	BRACKET-VESA	GOYA19(193V),SECC,T1.0	SNA
4	BN63-01264A	C/R	COVER-REAR	GS19VS,ABS HB,BK07	SNA
2	BN90-00635G	-	ASSY COVER FRONT	GS19VSSS,ADC	SNA
3	6003-001086	C/F+C/R	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
3	BN96-01072H	CIS	ASSY COVER P-FRONT	GS19VS(S/M 913V),ABS HB GR70,SILVER	SNA
2	BN91-00403C	-	ASSY LCD-E10	MO19ES	SNA
3	BN07-00128A	LCD	LCD	LTM190E1-L02,Goya,16.1M,404.2*330*20,16.2M,63,0.294*0.294,0~50,5V,PVa	SA
2	BN91-00784H	-	ASSY CHASSIS-E10/E17	GY17HS	SA
3	BN44-00113A	CIS	IP BOARD	MATISSE,1.5mA~3.0mA,6.1mA~7.3mA,48kHz,4,AC90V~264VAC,5Vdc / 13Vdc,0°…°≠ 32°…,50/	SNA
3	BN61-01103A	CIS	BRACKET-PCB	MJ19AS,SECC,T1.0	SNA
2	BN91-00785M	-	ASSY SHIELD	GS19VS	SNA
3	0203-001598	CIS	TAPE-FILAMENT	#8915,0.15,12,55000,CLR	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15AO(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	SA
3	BN39-00506A	CIS	LEAD CONNECTOR	GS17/19*/MJ19,UL1571#30,UL/CSA,30P,160mm,#30,12507HS-30L,1615A-30,BK,SJ03-01-293	SNA
3	BN39-00523A	CIS	LEAD CONNECTOR	GS(MJ)15/17/19*,UL1061#28,UL/CSA,6P/5P,200mm,#28,12507HS-06L,1250SHS-05,BK,SJ04-	-
3	BN61-01234A	CIS	HOLDER-INVERTER	MATISSE,ABS V0,BK07	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6001-000364	SH/COV+PAN	SCREW-MACHINE	FH,+,M3,L8,ZPC(YEL),SWRCH18A,-,-	SNA
3	BN96-01060B	CIS	ASSY MISC P-SHIELD COVER	GS19VS/VT/MS,SECC T1.0	SNA
4	BN63-01217B	CIS	SHIELD-COVER	GS19VS/VT/MS,SECC T1.0	SNA
4	BN63-01313A	CIS	COVER-INSULATOR	MJ17,19AS/BS,PET,T0.35	SNA
2	BN92-00982D	-	ASSY P/MATERIAL	GS19VS,EDC	SNA
3	0203-001102	P/M	TAPE-OPP MASKING	OPP-2,T0.05,W100,L400M,CLR	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000520	P/M	BAG PE	HDPE/NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH69-00457B	P/M	PACKING-PAD BOTTOM	GH15,FOAM,T3.0,930,1000	SNA
3	BH69-40303J	P/M	PACKING-PALLET	WOODEN,990X1100X120,-,CKM5237	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-,	SNA
3	BN68-00129A	P/M	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00140P	P/M	PAD-PALLET COVER	SUN15,SW,1000*3780,1310,-,-,-,-,-	SNA
3	BN69-00733A	P/M	CUSHION	GS19VS,EPS M50	SNA

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN92-01013D	-	ASSY LABEL	GS15MSSS,ADC,UNITED STATES	SNA
3	BN68-00614A	CIS	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA
2	BN92-01017R	-	ASSY BOX	GS19VSSS,ADC,UNITED STATES	SNA
3	BH68-00328M	CIS	LABEL BAR CODE	SAMTRON,TCO99,ADC,ART-PAPER 90G,-,90,90,LABEL-BARCODE,-,WHT,-,-	SNA
3	BN69-00758B	CIS	BOX-00	913V(GS19VS) W/W,CB-SW4,YEL,A-1,W519*D482*H126	SNA
2	BN92-01051B	-	ASSY ACCESSORY	GS19VSSB,ADC,UNITED STATES	SNA
3	BN96-01109A	CIS	ASSY STAND P-BASE	MJ19AS/BS,ABS HB,BK07	SNA
4	6003-000283	STAND/BASE	SCREW-TAPTITE	BH,+,B,M3,L8,ZPC(YEL),SWRCH18A,-	SNA
4	6009-001442	STAND/BASE	SCREW-SPECIAL	CH,-,-,M4,L10(5),ZPC(YEL),SWRCH18A,-,HD12,2 BODY	SA
4	6902-000110	STAND/BASE	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	6902-000336	STAND/BASE	BAG ZIPPER	LDPE,T0.05,L80,W70,TRP,,,PE MARK	SNA
4	BH68-20366C	STAND/BASE	LABEL-00,STANDE BASE	MJ19,ART PAPER,55X10,YELLOW	SNA
4	BN61-00048A	STAND/BASE	FOOT-RUBBER	GH15LS,PORON,DIA 13.5MM,BLACK,2MM,-,-	SNA
4	BN61-00821A	STAND/BASE	STAND-HOLDER	GS17VS,ABS HB,BK07	SNA
4	BN61-01060A	STAND/BASE	STAND-BASE	GS19VS,ABS HB,BK07	SNA
4	BN61-01235A	STAND/BASE	SUPPORT-BRKT BASE	MJ19AS/BS,SECC,T1.6	SNA
4	BN68-00473P	STAND/BASE	MANUAL INSTALL	Goya2 Stand Guide,SyncMaster,W/W	SNA
3	BN96-01191N	CIS	ASSY ACCESSORY	GS17VSSB,ADC,UNITED STATES	SA
4	0203-000214	CIS	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
4	3903-000085	CIS	CBF-POWER CORD	DT,US,BP3/YES,I(IEC C13/C14),125/125V,10/10A,BLK,1830MM,-,SVT AWG18X3,UL/CSA,-,-	SA
4	6902-000110	CIS	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	AA68-40065B	CIS	CARD-01,REGISTRATION	,SEA,A5,ENG,A/P220,2P(SIDES),4	SNA
4	BH68-00261F	CIS	CARD WARRANTY-03	SyncMaster14-1,ADC,MOJO180G,E/F,USA	SNA
4	BH68-00261R	CIS	MANUAL-00	3 MONTHS CRM CARD,SECA,E/F,CANADA,MOJO120G,173,234	SNA
4	BH68-00344C	CIS	CARD WARRANTY-00	SECA W'TY & CRM CARD,SECA,MOJO100G,E/F,CANADA	SNA
4	BN96-01165A	CIS	ASSY MANUAL P-IB+QSG	710T,SyncMaster,W/W,27Lang,BN59-423A+BH68-376L	SNA
5	BH68-00376L	CIS	MANUAL-01	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SA
5	BN59-00423A	CIS	S/W DRIVER-00,IB	710V,W/W,SyncMaster,27 Lang	SNA
1	E17-GS19VSSS	-	2	SEC,LTM190E1-L02 ZPD	

7-4 GS15MS/GS17MS/GS19MS Different Circuit Part List

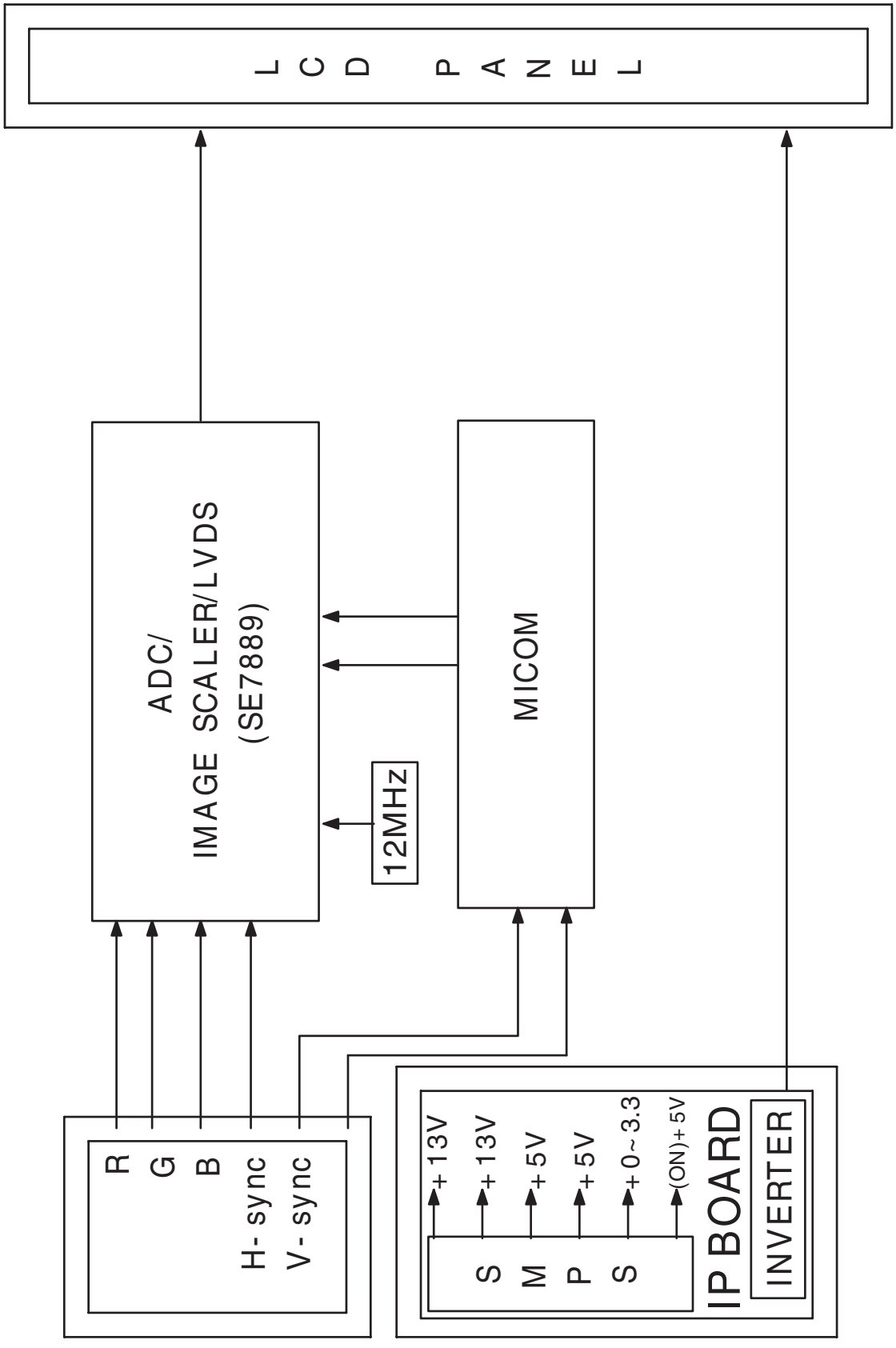
Loc. No	Code	Description
C202	2203-005005	C-CERAMIC,CHIP
C208	2203-000189	C-CER,CHIP
C500	2402-001086	C-AL,SMD
C501	2203-000189	C-CER,CHIP
C502	2203-005065	C-CERAMIC,CHIP
C503	2203-005065	C-CERAMIC,CHIP
C600	2203-005065	C-CERAMIC,CHIP
C601	2402-001044	C-AL,SMD
C602	2203-000257	C-CERAMIC,CHIP
CN500	3711-004350	CONNECTOR-HEADER
D500	0406-001163	DIODE-TVS
D501	0406-001163	DIODE-TVS
IC500	1201-001805	IC-AUDIO AMP
IC502	1203-003268	IC-POSI.FIXED REG.
Q600	0501-002080	TR-SMALL SIGNAL
R213	2007-000090	R-CHIP
R220	2007-000074	R-CHIP
R245	2007-000084	R-CHIP
R248	2007-000616	R-CHIP
R249	2007-000070	R-CHIP
R500	2007-000965	R-CHIP
R501	2007-000965	R-CHIP
R504	2007-001010	R-CHIP
R505	2007-001010	R-CHIP
R601	2007-000092	R-CHIP

7-5 GS17VS/GS17VT/GS19VS/GS19VT/GS15MS/GS17MS/GS19MS Different Mechanical Part List

*** Refer to Chapter 6 Exploded View and Parts List for All Models Different Mechanically Part List.**

8 Block Diagram

8-1 ANALOG Blcok Diagram



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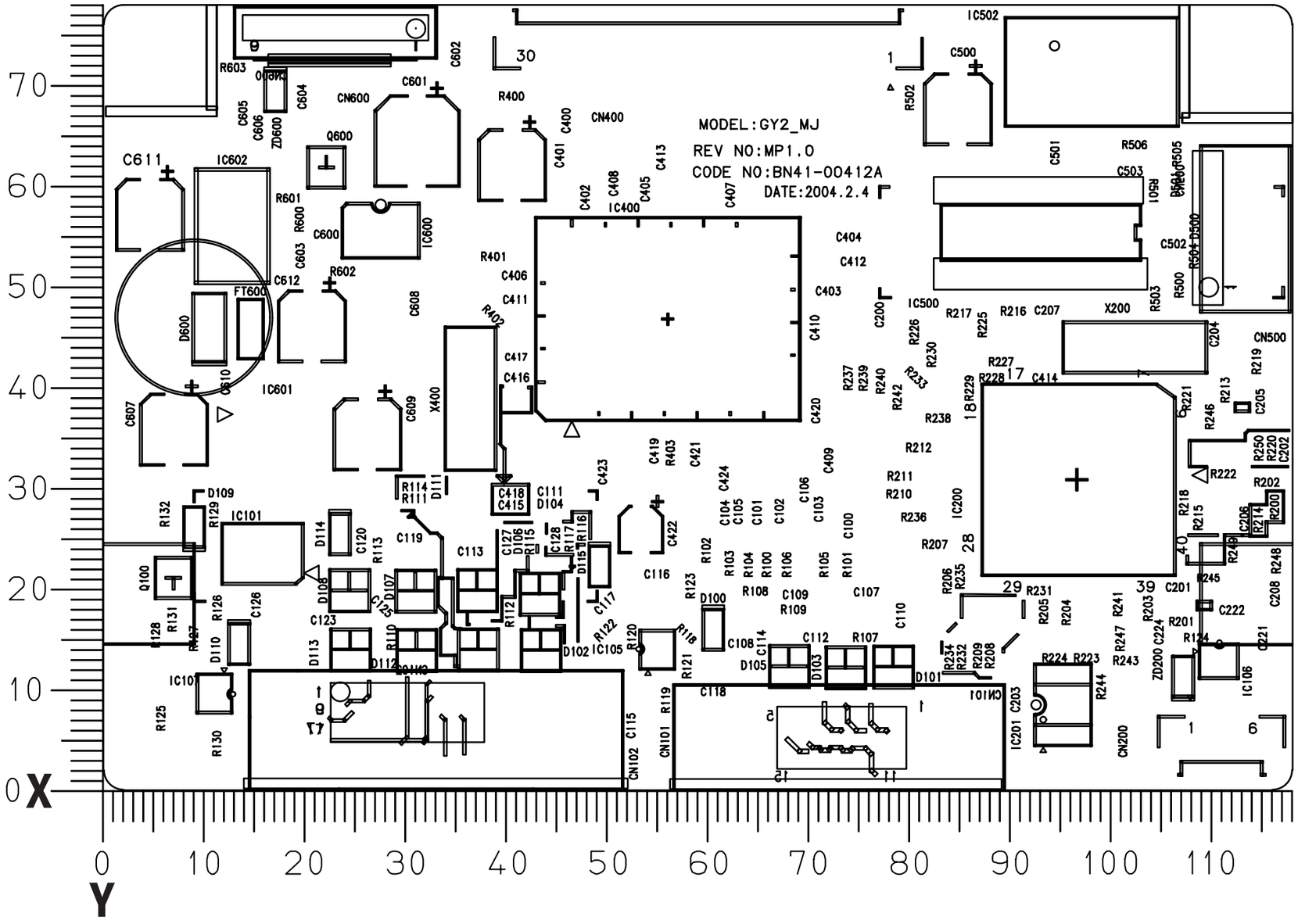
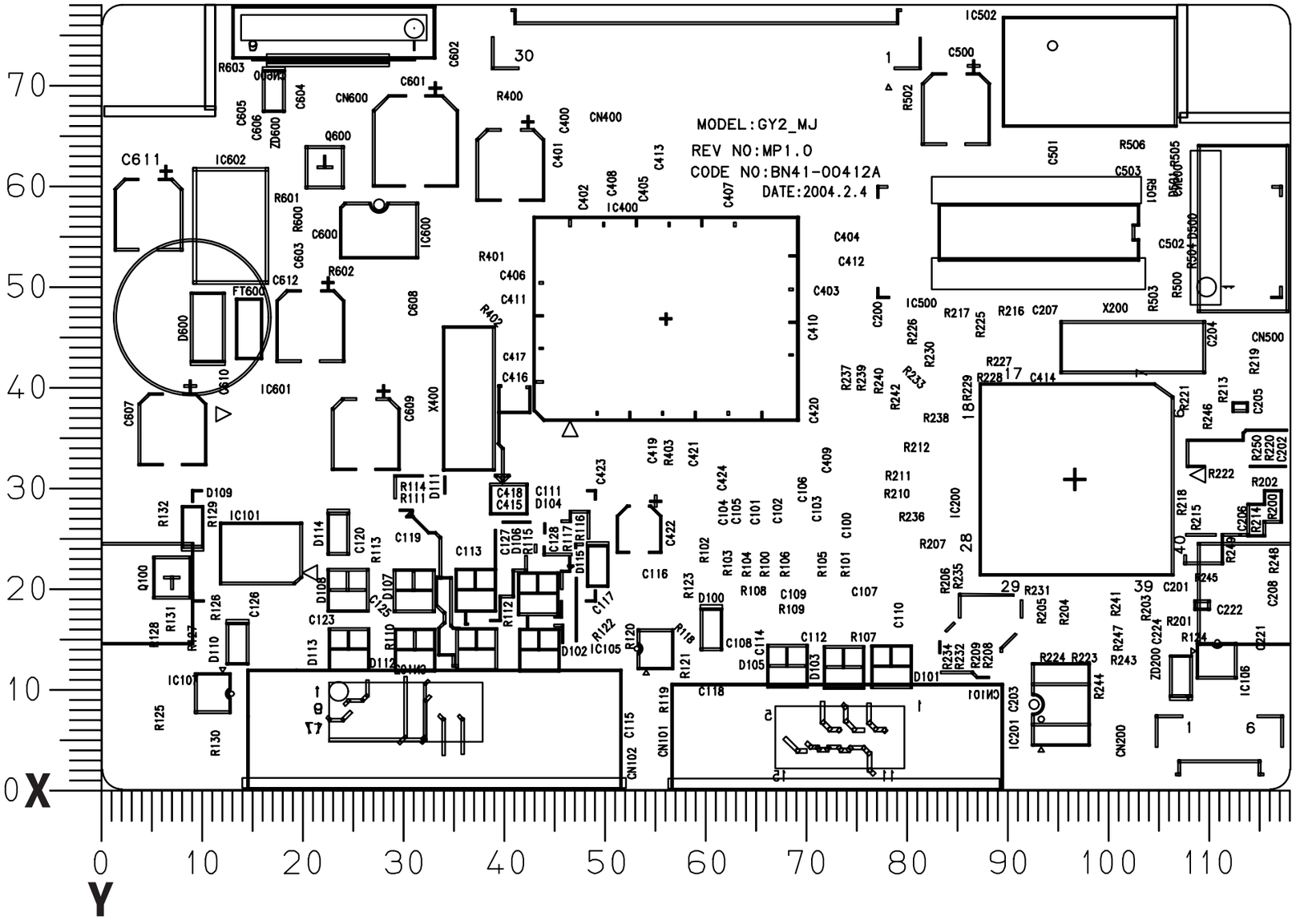
10 PCB Layout

10-1 GS15MS AUDIO PCB



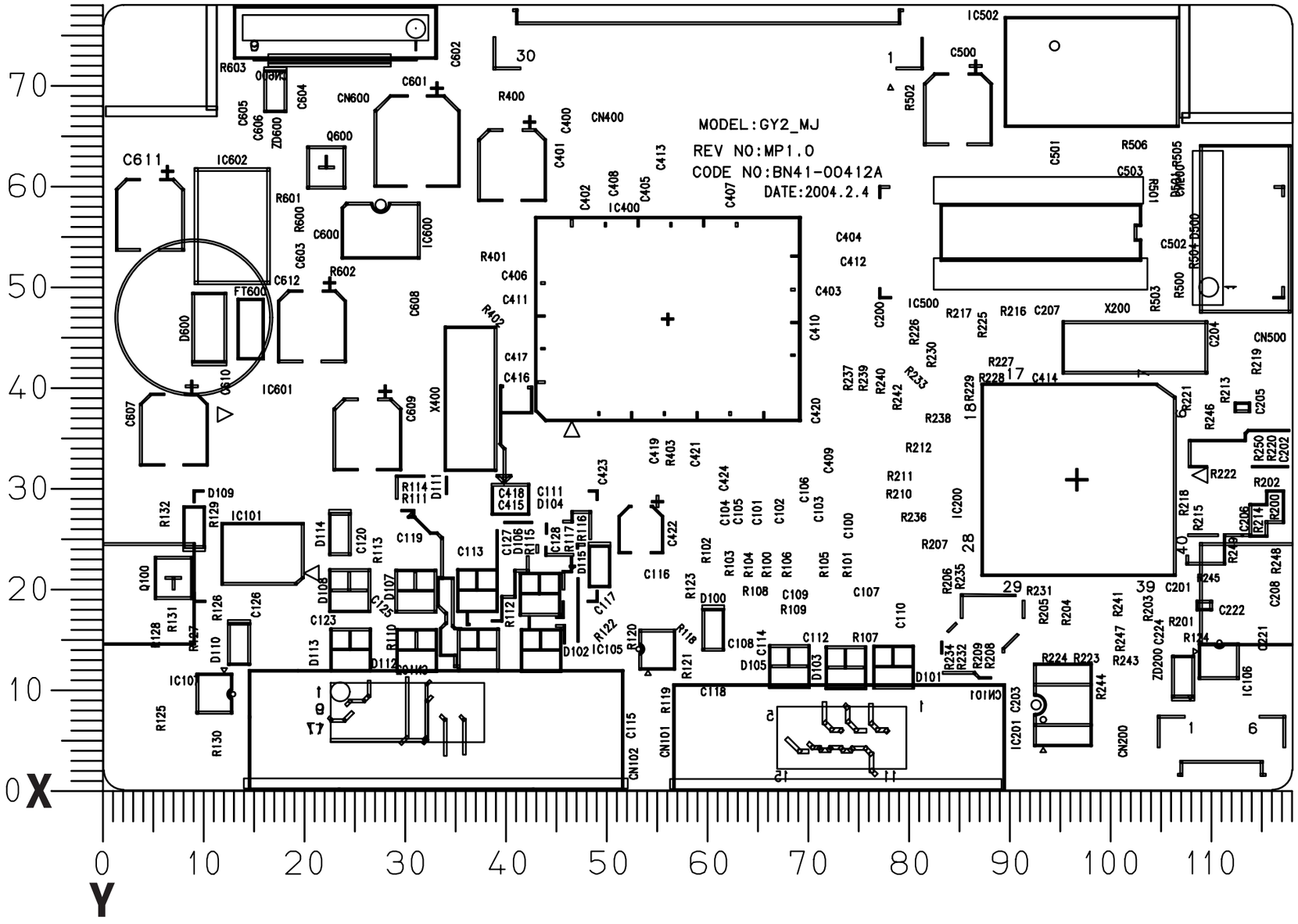
Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D103	DIODE-SWITCHING	73.6	12.2
D105	DIODE-SWITCHING	68.0	12.4
D500	DIODE-TVS	107.2	56.1
D501	DIODE-TVS	107.5	60.5
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC500	IC-AUDIO AMP	101.9	59.8
IC502	IC-POSI.FIXED REG.	98.7	71.5
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5
IC602	IC-VOLTAGE REGULATOR	12.8	56.1
TRANSISTOR			
Q600	TR-SMALL SIGNAL	22.1	62.0

10-2 GS17VS/GS17VT/GS19VS/GS19VT ANALOG PCB



Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D103	DIODE-SWITCHING	73.6	12.2
D105	DIODE-SWITCHING	68.0	12.4
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5

10-3 GS17MS/GS19MS AUDIO PCB



Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D103	DIODE-SWITCHING	73.6	12.2
D105	DIODE-SWITCHING	68.0	12.4
D500	DIODE-TVS	107.2	56.1
D501	DIODE-TVS	107.5	60.5
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC500	IC-AUDIO AMP	101.9	59.8
IC502	IC-POSI.FIXED REG.	98.7	71.5
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5
TRANSISTOR			
Q600	TR-SMALL SIGNAL	22.1	62.0

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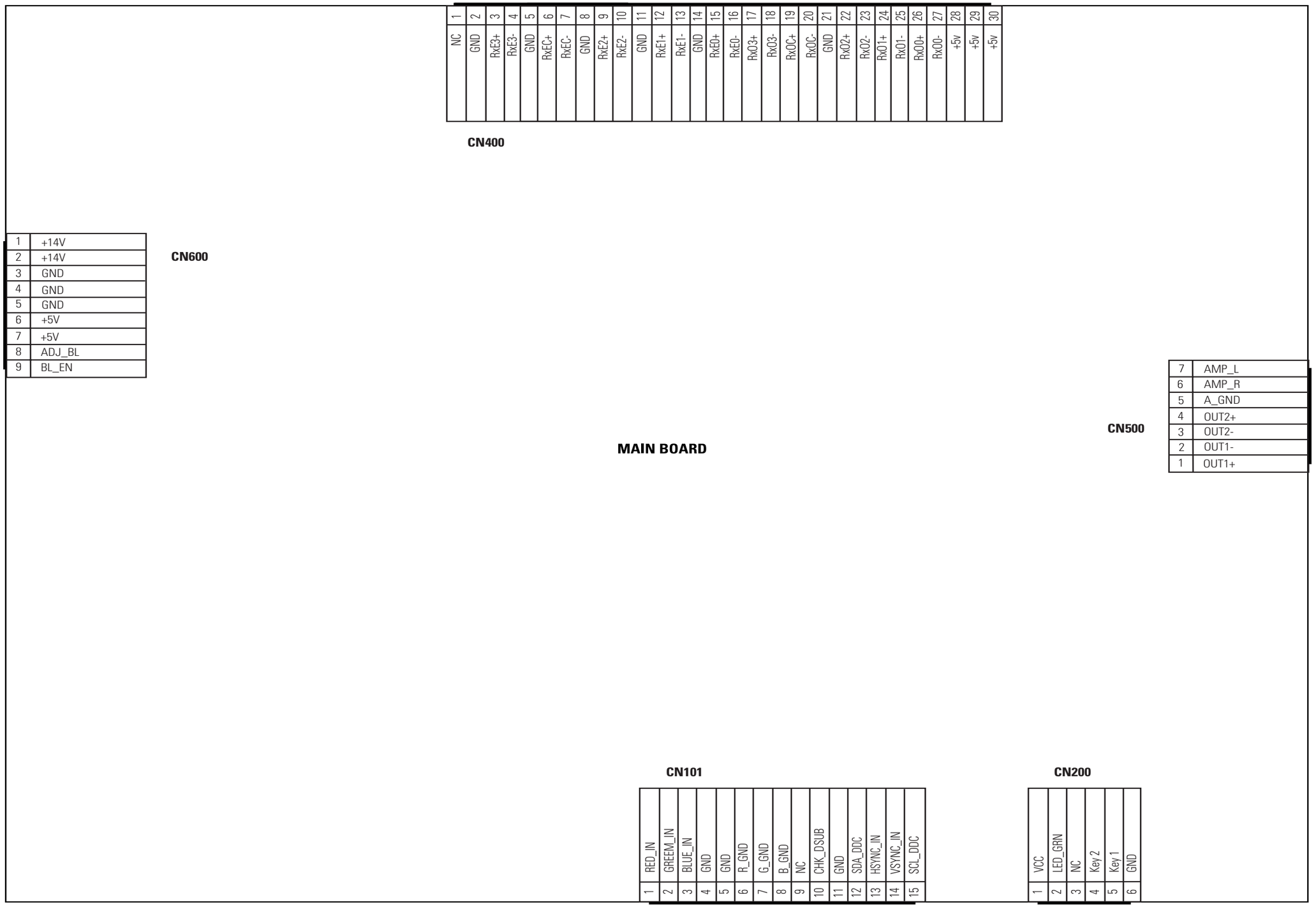
9 Wiring Diagram



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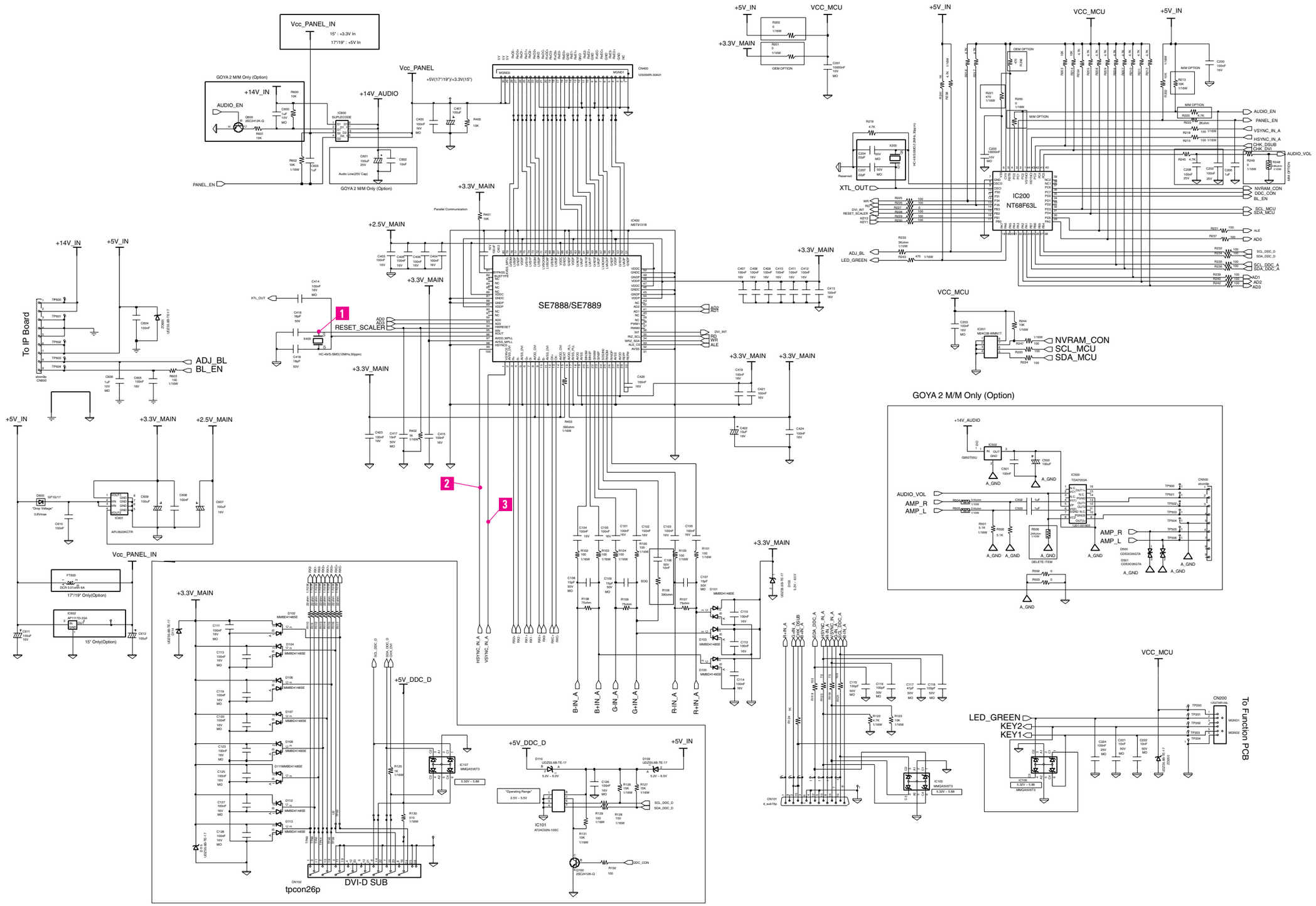
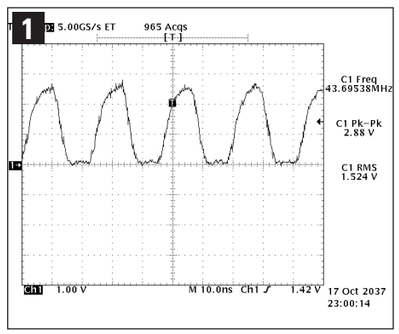
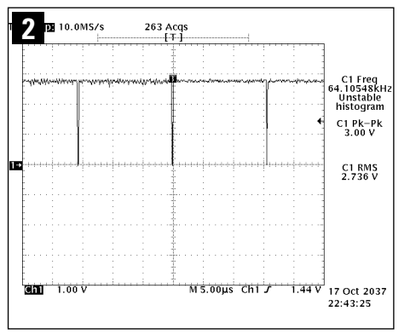
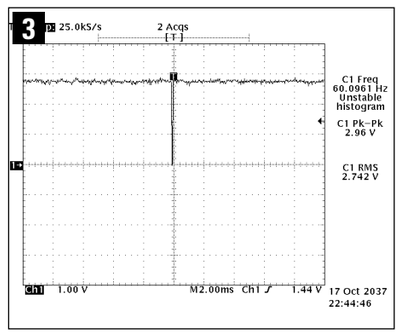
11 Schematic Diagrams

✻ This Document can not be used without Samsung's authorization.




1
Ch1 5.00GS/s ET 965 Acqs
C1 Freq
43.69538MHz
C1 Pk-Pk
2.88 V
C1 RMS
1.524 V
Ch1 1.00 V M 10.0ns Ch1 1.42 V
17 Oct 2037
23:00:14


2
Ch1 10.0MS/s 263 Acqs
C1 Freq
64.10548kHz
Unstable
histogram
C1 Pk-Pk
3.00 V
C1 RMS
2.736 V
Ch1 1.00 V M 5.00µs Ch1 1.44 V
17 Oct 2037
22:43:25


3
Ch1 25.0kS/s 2 Acqs
C1 Freq
60.0961 Hz
Unstable
histogram
C1 Pk-Pk
2.96 V
C1 RMS
2.742 V
Ch1 1.00 V M2.00ms Ch1 1.44 V
17 Oct 2037
22:44:46